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PART A

IONOSPHERIC DATA

ISSUED
JUNE 1962

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

CRPL-F 214
PART A

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued
22 June 1962

IONOSPHERIC DATA

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IONOSPHERIC DATA

The CRPL-F series bulletins are issued as part of the responsibility of the Central Radio Propagation Laboratory for the exchange and dissemination of ionospheric and related geophysical data. While originally a by-product of the collection of data by the CRPL for use in radio propagation studies, the CRPL-F series bulletins, Part A, "Ionospheric Data," and Part B, "Solar-Geophysical Data," have provided useful service by collecting and making available a wide variety of data in convenient form for use in research, not only on radio propagation and the ionosphere, but also on a wide variety of geophysical problems. Beginning with CRPL-F 211, Part A, "Ionospheric Data," a number of changes have been made in the tables of ionospheric data which, by providing more information, should increase their usefulness.

The current form of the tables of ionospheric data provides the monthly medians and, in addition, the number of values entering into median determination (count) for all ionospheric characteristics listed. Also, the upper and lower quartile values, indicated by UQ and LQ in the tables, are listed for foF2, h'F2, h'F, and (M3000)F2. Quartile values are not listed for the other characteristics because of space limitations. The tables are prepared by IBM machine methods, which, by improving the speed and efficiency of preparation, permit earlier publication of the data.

Graphs of critical frequencies and (M3000)F2 will continue to appear. Graphs of percentage of time of occurrence for fEs and virtual heights of the regular ionospheric layers are no longer included. This change was necessary to provide space for the enlarged tables. Data on percentage of time of occurrence of fEs above 3, 5, and 7 Mc are still available from the CRPL and the IGY World Data Center A for Airglow and Ionosphere.

For many years, the tables of ionospheric data appearing in the F-series, Part A, listed values of medians recomputed at CRPL. While this practice enforced a certain uniformity, it was subject to some valid criticism for tampering with original data. The tables and graphs now show the ionospheric data just as they are provided by the originating laboratory. Responsibility for the accuracy and reliability of the data now rests entirely with the originator.

Gaps in the tables when data normally might be expected indicate the data were not provided by the originator. Following the recommendation of the World-Wide Soundings Committee, only values of median foEs are listed. In the few cases where fEs is still reported instead of foEs, the data will not be printed. Data will appear in the F-series, Part A, only when the complete daily-hourly tabulations have been received by the CRPL or the IGY World Data Center A for Airglow and Ionosphere.

Information on symbols, terminology, and conventions may be found in the "URSI Handbook of Ionogram Interpretation and Reduction, of the World-Wide Soundings Committee," edited by W. R. Piggott and K. Rawer (Elsevier, 1961), which supersedes previous documents. A list of symbols is available from CRPL on request.

The following table contains the latest available information on smoothed observed Zurich sunspot numbers, beginning with the minimum of April 1954. Final numbers are listed through June 1961, the succeeding values being based on provisional data.

Smoothed Observed Zurich Sunspot Number

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1954				3	4	4	5	7	8	8	9	12
1955	14	16	19	23	29	35	40	46	55	64	73	81
1956	89	98	109	119	127	137	146	150	151	156	160	164
1957	170	172	174	181	186	188	191	194	197	200	201	200
1958	199	201	201	197	191	187	185	185	184	182	181	180
1959	179	177	174	169	165	161	156	151	146	141	137	132
1960	129	125	122	120	117	114	109	102	98	93	88	84
1961	80	75	69	64	60	56	53	52	52	51	50	
1962												

Units of Ionospheric Data Tables

foF2, foEs - - - Tenths of a megacycle
foF1, FoE - - - Hundredths of a megacycle
h'F2, h'F, h'E - Kilometers
(M3000)F2 - - - Hundredths

NOTE: Occasionally, when the median falls between two of the observed values, the median is carried an extra decimal place beyond these units. Those cases are easily identifiable by the extra digit appearing to the right of the number, in a column usually left blank.

MED - Median
CNT - Count
UQ - Upper Quartile
LQ - Lower Quartile

WORLD-WIDE SOURCES OF IONOSPHERIC DATA

The ionospheric data given here in tables 1 to 100 and figures 1 to 100 were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL prediction of radio propagation conditions. The data are median values unless otherwise indicated. The following are the sources of the data in this issue:

Republica Argentina, Ministerio de Marina:
Tucuman, Argentina

Commonwealth of Australia, Ionospheric Prediction Service of the Commonwealth Observatory:
Wilkes Station, Antarctica

Belgian Royal Meteorological Institute:
Dourbes, Belgium
Lwiro (Central African Institute for Scientific Research)

Universidad Mayor de San Andres:
La Paz, Bolivia

Electronics Directorate of the Brazilian Navy:
Natal, Brazil

Escola Politecnica, University of Sao Paulo:
Sao Paulo, Brazil

British Department of Scientific and Industrial Research, Radio Research Board:
Port Lockroy

Defence Research Board, Canada:
Eureka, Canada
Frobisher Bay, Canada

Universidad de Concepcion:
Concepcion, Chile

Czechoslovak Academy of Sciences:
Pruhonice, Czechoslovakia

Danish National Committee of URSI:
Godhavn, Greenland
Narssarssuaq, Greenland

Institute for Ionospheric Research, Lindau Uber Northeim, Hannover, Germany:
Tsumeb, South West Africa

Ionospheric Institute, Breisach, Germany:
Freiburg, Germany

The Royal Netherlands Meteorological Institute:
Hollandia, Netherlands New Guinea
Paramaribo, Surinam

Icelandic Post and Telegraph Administration:
Reykjavik, Iceland

Indian Council of Scientific and Industrial Research, Radio Research Committee, New Delhi, India:
Ahmedabad (Physical Research Laboratory)
Bombay (All India Radio)
Calcutta (Institute of Radio Physics and Electronics)
Delhi (All India Radio)
Kodaikanal (India Meteorological Department)
Madras (All India Radio)
Tiruchy (All India Radio)
Trivandrum (All India Radio)

Telecommunication Administration, Oslo, Norway:
Svalbard, Norway

Manila Observatory:
Baguio, P. I.

Royal Board of Swedish Telegraphs, Radio Department, Stockholm, Sweden:
Lulea, Sweden

United States Army Signal Corps:
Adak, Alaska
Thule, Greenland

National Bureau of Standards (Central Radio Propagation Laboratory):
Anchorage, Alaska
Boulder, Colorado
Byrd Station, Antarctica
Fairbanks (College), Alaska (Geophysical Institute of the University of Alaska)
Maui, Hawaii
Point Barrow, Alaska
Pole Station, Antarctica

TABULATIONS OF ELECTRON DENSITY DATA

Reduction of hourly ionospheric vertical soundings to electron density profiles has become a part of the systematic ionospheric data program of the Central Radio Propagation Laboratory, National Bureau of Standards. Scalings of ionograms for this purpose are being provided by ionosphere stations operated by several stations associated with CRPL. For the present, the hourly profile data from one CRPL station, Puerto Rico, are appearing in the monthly CRPL-F Reports, Part A. The very considerable task of scaling the ionograms for this purpose is being undertaken by T. R. Gilliland, Engineer in Charge, Puerto Rico Ionosphere Sounding Station; the computations are performed at the NBS Boulder Laboratories by a group headed by J. W. Wright. Basic conversion of virtual to true heights uses the well-known matrix method developed by K. G. Budden of the Cavendish Laboratory, Cambridge University, programmed by Dr. H. H. Howe for a CDC-1604 computer.

The tabulations provide the following basic electron density profile data for each hour of each day of the month:

Quantity	Units	Remarks
Electron Density (N)	$x10^3$ = electrons/cm^3	Body of table; given at each 10 km of height.
NMAX	$x10^3$ = electrons/cm^3	Always the highest value of N at each hour. To maintain this rule, the electron density at the next 10 km increment above HMAX is always given as exactly equal to NMAX (unless HMAX coincides with a 10 km level).
QUALification	(Alphabetic)	A standard scaling letter qualifying the observation when necessary.
KP		The standard Kp magnetic index, to one digit.
HMIN	Kilometers	The height of zero or very low electron density, obtained by linear extrapolation of the electron density vs. height curve.
SCAT	Kilometers	One half of the half-thickness of the parabola best fitting the upper portion of the F region profile. Approximates the scale height near the level HMAX.
HMAX	Kilometers	The height of maximum electron density, determined by fitting a parabola to the upper portion of the profile.
SHMAX	$x10^{10}$ = electrons/cm^2 column.	Obtained by integration of the profile between the limits HMIN and HMAX.

Tabulations of the average electron densities each hour, at each 10 km level, for the quiet ionosphere, are also given. These averages include the profiles obtained when the magnetic character figure Kp is 4+ or less. The number of profiles entering the average for each hour is given by CNT. The other parameters of the layer, HMIN, SCAT, HMAX, SHMAX, and the mean value of Kp are given for each hour.

Before the averaging process, the individual profiles are extrapolated above HMAX by a Chapman distribution of 100 km scale height. This assumed model seems to agree well with the few published measurements dealing with the topside profile of the F-region.* Extrapolation is necessary in order to calculate homogeneous averages near HMAX and the average profiles are, in fact, given up to 950 km. Also given are the average estimated integrated electron densities to infinity, SHINF (same units as SHMAX); this is an approximation to the total electron content in a column of the ionosphere.

*See Wright, J. W. "A Model of the F-Region Above HMAX F2" J.Geophys.Res. V.65, pp. 185-191.

ELECTRON DENSITY

RAMEY AF8, PUERTO PICO 60 W 1 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	A0	A0	0	0	0	0	S0	0	0	A0	A0
HMIN	204		239	257	218	222	213		107	109		
SCAT	45.2		36.0	31.2	30.3	37.0	33.0		33.0	27.6		
HMAXF	283		321	325	287	301	296		241	242		
SHMAX	71		91	81	85	112	104		302	458		
KM												
330			179	186								
320			179	185								
310			175	175		222						
300			163	157		221	215					
290	124		147	131	205	216	213					
280	124		126	97.8	202	202	202					
270	121		97.0	53.4	188	182	181					
260	116		61.0	19.3	162	154	152					
250	107		34.1		121	117	114		512	858		
240	96.6		5.4		75.2	69.3	76.3		512	857		
230	82.0				38.9	33.3	46.2		497	820		
220	62.0				12.4		23.1		460	726		
210	30.0								392	570		
200									303	415		
190									230	307		
180									178	244		
170									142	208		
160									118	181		
150									99.8	156		
140									86.6	133		
130									78.7	118		
120									66.0	111		
110									55.6	27.3		

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 1 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	0	80	0	A0	A0	A1	A1	A1	A3	A3	A3	A1
HMIN	106		105		107			200	200		211	209
SCAT	30.8		33.8		40.5			24.2	40.9		32.2	26.6
HMAXF	216		247		246			248	265		287	263
SHMAX	315		450		377			133	96		80	53
KM												
290											171	
280											169	
270									197		159	149
260									196		141	149
250			580		491			440	190		115	141
240			574		488			429	178		84.8	122
230			545		472			382	161		56.3	90.8
220	515		490		439			279	137		32.2	50.0
210	510		426		393			106	90.4			12.4
200	480		365		337			12.4	12.4			
190	422		321		286							
180	346		291		247							
170	286		270		219							
160	256		250		198							
150	229		229		176							
140	177		211		154							
130	152		179		132							
120	146		148		117							
110	130		115		49.1							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 2 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	1	1	1	0	0	S0	0	0	A0	A0
HMIN	225	218	213	199	199	218	207		109	109	105	109
SCAT	37.6	32.7	32.9	29.2	37.4	39.0	43.8		35.8	36.8	34.1	27.1
HMAXF	299	298	284	250	265	294	300		230	231	239	231
SHMAX	61	74	77	70	63	60	56		250	330	413	386
KM												
310							91.1					
300	123	155				118	91.1					
290	121	153	175			118	89.9					
280	115	144	174			115	85.7					
270	104	127	167		136	108	80.2					
260	87.8	104	151	204	135	95.9	71.4					
250	67.9	76.3	124	204	131	78.7	60.7					
240	45.5	50.8	86.6	198	121	56.4	49.4		426	529	616	681
230	21.2	30.7	49.4	180	106	33.1	38.1		426	529	606	681
220		12.4	23.8	141	81.0	12.4	26.7		417	518	569	654
210				66.8	43.0		12.4		392	487	506	579
200				12.4	12.4				348	431	415	457
190									276	333	331	331
180									206	262	274	273
170									155	217	241	247
160									123	184	216	222
150									101	157	192	189
140									89.7	136	170	160
130									84.2	126	154	145
120									57.6	100	133	138
110									39.3	41.8	101	48.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 2 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	0	A0	1	A1	1	A1	S1	1	1	A1	A1	A1
HMIN	106	105	108	109	108			189	199	207	239	199
SCAT	43.9	30.2	34.1	35.1	33.5			38.3	44.5	48.8	32.7	26.2
HMAXF	243	243	235	230	231			255	273	324	301	253
SHMAX	427	446	382	333	316			138	86	105	93	61
KM												
330										148		
320										148		
310										145	232	
300										139	232	
290										130	225	
280									163	117	209	
270									163	101	176	
260								295	159	84.1	117	179
250	536	678						294	152	68.2	53.0	179
240	536	676	567		482			284	141	53.7	12.4	168
230	524	646	564	515	482			264	122	40.2		144
220	499	579	540	505	470			232	92.8	26.9		94.9
210	460	475	492	475	436			179	54.6	12.4		49.6
200	402	373	417	423	381			106	12.4			12.4
190	342	304	334	349	318			27.3				
180	298	266	278	277	263							
170	269	245	248	238	224							
160	250	232	224	212	197							
150	221	218	207	186	170							
140	174	180	180	153	141							
130	152	152	155	131	119							
120	145	140	139	119	110							
110	124	120	54.4	25.1	69.4							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 3 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	1	1	1	0	0	S0	1	1	81	82
HMIN	249	241	234	218	200	211	241		109	109	108	109
SCAT	39.7	43.9	26.7	24.6	84.7	41.1	32.6		26.8	32.0	33.4	36.6
HMAXF	323	326	282	266	299	284	302		225	229	254	237
SHMAX	60	81	48	49	98	53	43		217	281	451	486
KM												
330	116	142										
320	116	142										
310	113	138					101					
300	106	130			117		101					
290	95.4	119	142		117	103	97.9					
280	80.7	103	142		116	102	89.8					
270	62.3	82.6	135	155	114	99.8	76.6					
260	39.3	54.9	117	153	111	94.1	58.6				619	
250	12.4	28.6	86.3	140	108	85.2	36.1				617	
240			39.6	109	104	71.7					592	747
230				62.4	97.8	53.4			428	450	542	740
220				17.8	84.9	29.5			424	442	463	705
210					65.6				392	410	381	645
200					12.4				332	359	316	540
190									255	300	276	414
180									184	247	250	322
170									135	203	231	275
160									101	169	212	249
150									83.7	139	191	224
140									77.9	118	165	196
130									75.4	106	142	163
120									62.4	100	133	152
110									29.7	41.8	112	48.8

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 3 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	B2	2	A1	1	1	1	S1	1	1	1	1	2
HMIN	107	108		108	106	108		195	242	239	213	200
SCAT	33.1	31.8		34.0	40.5	34.5		35.4	52.2	37.5	32.8	37.7
HMAXF	236	251		235	227	246		251	352	316	284	264
SHMAX	461	475		337	283	315		149	144	124	113	73
KM												
360									206			
350									206			
340									203			
330									197			
320									187	254		
310									173	253		
300									154	243		
290									131	224	254	
280									104	194	253	
270									75.6	151	243	155
260		651						368	48.6	100	221	154
250		651				515		368	25.5	46.2	186	150
240	730	631		517		510		359		12.4	141	140
230	725	579		514	420	486		336			85.6	124
220	689	500		492	417	440		291			34.3	99.6
210	620	414		449	402	363		202				65.8
200	491	346		381	373	275		95.2				12.4
190	371	306		303	329	208						
180	300	285		251	262	165						
170	265	273		218	210	133						
160	245	252		184	178	110						
150	232	223		143	146	96.3						
140	212	190		130	128	88.1						
130	172	165		124	120	83.0						
120	153	152		121	116	80.1						
110	80.5	40.4		101	91.9	65.4						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 4 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	2	2	2	2	2	3	3	S3	5	5	A5	A4
HMIN	199	217	218	202	206	237	238		109	109		
SCAT	30.3	39.6	35.3	40.4	57.8	47.3	42.3		43.0	39.3		
HMAXF	259	311	297	270	293	326	324		262	258		
SHMAX	52	80	79	97	100	88	79		322	486		
KM												
330						146	142					
320		142				146	142					
310		142				142	139					
300		139	166		153	136	131					
290		132	164		153	125	120					
280		120	157	204	151	110	102					
270		104	142	204	147	89.0	79.4		428			
260	130	83.1	119	201	142	64.3	54.3		428	694		
250	127	61.2	89.2	191	132	38.7	33.8		420	687		
240	117	42.6	54.2	176	119	15.8	12.4		400	658		
230	99.6	27.4	28.5	147	97.5				368	606		
220	72.2	12.4	7.9	98.7	68.3				327	530		
210	41.2			38.8	29.4				277	432		
200	12.4								233	343		
190									195	275		
180									160	231		
170									130	201		
160									105	174		
150									88.1	149		
140									79.4	129		
130									61.3	111		
120									56.8	96.9		
110									25.1	33.0		

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 4 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	84	4	4	4	4	4	S4	4	3	S3	S3	S3
HMIN		108	108	107	104	107	110	199	207	229	237	199
SCAT		38.4	35.9	41.3	43.5	44.8	30.6	42.7	30.7	33.5	37.4	26.1
HMAXF		268	270	252	259	257	263	293	276	325	320	255
SHMAX		846	801	628	484	419	339	288	215	157	216	131
KM												
330										297		
320										296	422	
310										282	415	
300								489		254	391	
290								489		221	356	
280			1184					478	517	182	310	
270		1184	1184				651	454	512	138	251	
260		1171	1160	936	621	580	650	416	481	92.7	158	390
250		1119	1091	936	615	576	623	370	424	59.0	67.9	386
240		1026	975	918	593	559	562	310	338	33.0	21.6	357
230		899	810	872	553	525	472	235	228	5.4		297
220		754	637	798	499	479	358	149	87.0			125
210		610	480	675	432	413	246	68.1	25.1			68.8
200		479	372	517	362	333	162	12.4				12.4
190		374	309	380	302	258	110					
180		312	274	297	252	202	80.1					
170		276	252	253	213	162	61.8					
160		254	234	224	182	135	50.0					
150		238	216	196	156	114	44.2					
140		212	196	167	134	96.6	41.9					
130		172	174	147	116	84.3	39.2					
120		147	143	135	107	79.0	33.0					
110		82.9	113	112	99.3	67.8	13.0					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 5 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	0	A0	0	1	1	S1	2	2	A2	2
HMIN	199	239	228	199	200	226	218		109	109	108	108
SCAT	37.9	31.6	42.7	57.7	21.3	44.4	45.4		29.8	32.1	36.1	36.0
HMAXF	284	308	319	295	235	310	314		236	238	254	244
SHMAX	85	58	94	115	33	52	69		282	383	555	579
KM												
320			163				111					
310		130	162			89.8	110					
300		128	155	170		88.7	108					
290	155	119	144	169		85.4	103					
280	155	104	129	167		79.5	95.1					
270	150	84.8	109	161		71.7	83.9					
260	140	62.7	81.7	154		59.9	70.7				858	
250	125	36.6	55.0	143		45.2	55.4				855	923
240	107	4.7	31.8	126	124	30.2	40.3		539	660	826	921
230	85.1		12.4	98.8	122	15.0	26.4		533	651	765	889
220	60.7			69.1	108		7.9		498	610	665	824
210	37.0			40.4	78.7				431	537	528	712
200	12.4			12.4	12.4				335	425	391	577
190									242	321	307	431
180									174	245	256	315
170									129	198	224	259
160									100	167	196	233
150									82.0	142	169	207
140									74.4	125	144	174
130									71.1	110	127	148
120									57.1	92.7	117	133
110									26.0	41.8	105	82.2

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 5 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A2	2	1	A1	1	1	A1	1	0	0	A0	A1
HMIN		109	107	107	108	108		200	189	237		229
SCAT		37.4	36.0	24.7	31.7	44.5		33.6	51.3	31.1		36.1
HMAXF		251	258	242	237	240		258	282	305		311
SHMAX		480	604	501	380	391		139	89	57		89
KM												
320												178
310										132		178
300										131		174
290									130	124		163
280									130	110		145
270									128	89.6		118
260		621	858					326	124	63.9		87.9
250		621	847	941				321	117	40.1		59.8
240		609	804	940	645	621		302	108	16.2		33.0
230		575	726	889	637	614		267	97.6			5.4
220		518	618	761	599	591		214	84.6			
210		452	501	599	527	552		146	69.8			
200		388	402	428	426	479		31.1	54.2			
190		334	334	316	325	348			23.7			
180		295	290	262	255	242						
170		268	261	234	210	179						
160		248	237	210	180	144						
150		228	212	184	146	120						
140		186	189	158	116	100						
130		153	164	141	102	88.2						
120		140	138	125	96.8	81.4						
110		59.8	58.0	115	89.4	76.2						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 6 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A1	A1	F1	1	1	A1	A1	A1	1	1	1	1
HMIN	230	271	248	214	189	230			110	109	108	109
SCAT	33.4	39.9	32.9	26.9	22.3	39.4			33.3	29.6	49.8	31.8
HMAXF	321	355	326	265	222	312			242	229	254	242
SHMAX	91	92	86	94	34	47			301	339	534	589
KM												
360		169										
350		168										
340		163										
330	171	151	179									
320	171	136	178			85.8						
310	166	116	169			85.8						
300	153	90.0	152			83.9						
290	135	56.7	128			79.3						
280	113	29.0	101			71.9						
270	89.3		71.2	281		62.1						
260	66.8		39.1	279		50.3					697	
250	46.3		12.4	260		36.8			507		696	1031
240	27.2			220		23.0			507		683	1030
230	2.4			144	136	.3			491	621	656	993
220				41.8	136				454	608	620	904
210					127				387	558	550	756
200					101				304	471	456	559
190					27.3				234	352	361	376
180									182	261	285	291
170									145	209	242	257
160									117	175	216	237
150									96.8	147	184	217
140									83.3	123	147	189
130									79.0	108	125	156
120									63.5	102	117	135
110									12.4	64.7	93.1	48.8

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 6 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	A1	A2	A2	2	4	S4	4	4	4	4	3
HMIN	105	109	108	109	109	108	110	200	200	198	239	226
SCAT	34.5	25.5	34.7	33.7	39.0	30.7	30.8	30.3	28.6	46.6	34.3	48.1
HMAXF	234	220	239	237	238	235	257	258	248	297	310	331
SHMAX	476	349	394	414	348	306	268	181	70	82	71	102
KM												
340												168
330												168
320											155	166
310											155	160
300										123	152	151
290										123	142	137
280										120	125	119
270										113	102	96.1
260							549	467		104	69.4	71.0
250							541	460	197	93.2	37.9	48.9
240	747		564	645	489	517	505	427	192	81.1	4.7	30.5
230	745	651	556	638	484	513	441	369	176	66.7		14.9
220	718	651	524	604	462	484	341	271	148	50.7		
210	660	625	469	541	425	428	224	137	96.3	34.7		
200	558	549	398	444	369	347	136	12.4	31.1	12.4		
190	437	426	329	352	312	273	82.3					
180	340	316	279	287	263	218	57.3					
170	283	266	252	247	224	179	44.9					
160	253	240	232	220	196	150	39.0					
150	235	213	205	198	171	128	35.7					
140	216	187	167	171	144	107	33.6					
130	172	153	139	141	119	91.1	31.8					
120	142	133	123	126	106	82.8	27.7					
110	125	41.8	82.0	39.4	41.8	41.8	13.0					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 7 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	A4	A4	F4	F4	F4	S4	3	A3	A3	4
HMIN	241	210	199		223	218	208		109	105	108	106
SCAT	46.6	29.1	29.3		35.6	37.7	42.4		39.7	42.5	37.6	27.2
HMAXF	333	271	256		295	297	300		243	249	262	246
SHMAX	112	82	70		61	69	79		320	368	502	619
KM												
340	187											
330	187											
320	183											
310	175											
300	164				127	135	133					
290	145				127	134	132					
280	118	214			121	129	126					
270	87.1	214			111	118	117				651	
260	57.8	207	193		96.4	103	105				650	
250	29.9	186	191		76.0	83.1	89.2		536	512	635	1184
240		149	179		49.4	59.8	69.6		535	506	597	1169
230		97.4	153		23.8	33.5	50.4		521	486	536	1081
220		43.2	101			12.4	31.8		492	454	467	905
210		3.1	45.8				12.4		439	399	397	659
200			12.4						347	329	333	445
190									245	269	286	319
180									172	221	252	264
170									131	185	229	240
160									105	149	207	224
150									88.8	117	184	206
140									80.9	102	160	181
130									62.0	95.2	132	154
120									49.9	91.6	116	129
110									24.1	81.8	93.5	114

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 7 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	4	4	3	3	A3	A1	A1	A1	A0	A0	0	F1
HMIN	106	109	108	108	105			203	201	203	219	
SCAT	27.7	34.1	32.7	40.2	36.8			27.9	34.6	55.7	31.5	
HMAXF	241	249	235	253	249			263	270	311	290	
SHMAX	568	623	422	432	357			156	104	119	93	
KM												
320										163		
310										163		
300										162		
290										157	215	
280										151	210	
270								428	242	141	194	
260				567				427	237	128	166	
250	1031	1031		566	491			405	222	111	123	
240	1031	1014	740	553	485			356	196	93.1	77.1	
230	988	954	736	523	460			272	146	72.5	41.5	
220	877	847	700	474	416			143	82.3	46.6	12.4	
210	707	676	630	409	365			43.2	38.3	23.1		
200	527	485	493	346	311							
190	378	348	329	296	263							
180	289	285	259	257	225							
170	252	250	228	228	194							
160	234	229	192	198	166							
150	216	213	155	165	138							
140	187	197	141	137	111							
130	156	156	135	126	98.2							
120	133	138	131	121	92.4							
110	110	41.8	94.7	80.1	75.5							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 8 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F1	F1	F1	A1	F1	A2	F2	S2	2	2	2	1
HMIN		235		210	200	199	208	110	108	109	107	106
SCAT		24.3		28.0	27.9	42.0	32.3	41.2	34.4	42.6	39.5	33.5
HMAXF		286		269	251	294	286	270	239	248	265	254
SHMAX		88		131	65	91	70	152	250	367	550	627
KM												
300						148						
290		268				148	149					
280		264				144	148	215				
270		239		358		136	140	215			707	
260		197		348	174	124	125	212			704	1017
250		128		316	173	109	106	203		491	682	1014
240		39.3		260	166	91.6	78.3	186	430	487	636	975
230				167	148	73.0	51.0	164	423	470	568	889
220				60.7	125	55.1	30.6	138	397	439	482	754
210				.4	88.3	37.5	12.4	112	352	392	400	578
200					12.4	12.4		89.6	275	334	332	411
190								69.2	206	281	283	309
180								53.4	156	236	253	263
170								41.7	124	201	232	240
160								33.3	97.5	174	214	222
150								28.6	81.6	149	197	203
140								26.5	72.8	127	181	180
130								24.8	61.0	105	149	147
120								21.5	55.8	92.7	126	134
110								13.0	40.7	37.2	98.3	113

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 8 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	A1	0	0	0	1	1	1	3	3	F3	F1
HMIN	108		109	108	109	109	112	200	201	197	259	227
SCAT	34.9		31.8	33.9	32.6	30.6	30.5	26.4	50.7	35.4	31.4	32.1
HMAXF	259		245	247	239	234	242	248	315	275	334	294
SHMAX	621		461	456	348	304	221	80	130	49	69	70
KM												
340											154	
330											153	
320									179		146	
310									179		131	
300									175		106	163
290									169		77.0	163
280									158	97.6	49.7	156
270									145	97.2	29.1	141
260	915								129	93.4	7.4	117
250	900		714	714			450	235	110	85.5		82.7
240	845		709	707	539	567	450	229	90.8	74.4		43.7
230	757		674	671	529	564	434	206	68.6	60.0		16.2
220	635		605	603	494	536	394	166	46.6	45.0		
210	503		502	487	433	478	326	104	26.3	29.0		
200	390		392	375	355	375	240	12.4		12.4		
190	310		306	289	281	265	155					
180	270		261	247	235	194	89.9					
170	250		240	223	208	155	64.6					
160	231		221	203	186	131	52.1					
150	209		197	183	162	109	44.4					
140	183		176	155	137	91.7	39.9					
130	151		147	130	118	80.3	38.1					
120	139		138	120	105	73.8	34.2					
110	102		41.8	49.1	29.7	37.2						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 9 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
O,KP	F1	F1	F1	F1	F1	1	F1	A1	2	2	A2	1
HMIN	222	222			202	200	238		107	107	108	108
SCAT	29.3	30.9			28.6	21.9	35.4		42.5	43.1	36.2	37.1
HMAXF	292	283			257	235	321		248	264	264	262
SHMAX	72	91			62	27	54		262	439	539	574
KM												
330							102					
320							102					
310							99.2					
300	169						91.9					
290	169	232					82.6					
280	161	232					70.6					
270	144	222					56.2			562	775	850
260	121	201			170		40.7			561	773	850
250	88.1	163			167		26.4		371	548	746	830
240	52.2	108			154	102	7.9		368	520	690	781
230	26.4	42.9			131	100			354	476	600	693
220					88.7	89.2			332	420	483	562
210					39.1	65.6			295	355	369	429
200						12.4			247	296	297	326
190									201	249	257	267
180									162	213	233	241
170									130	184	211	225
160									107	159	189	200
150									92.3	139	167	168
140									85.3	122	142	146
130									57.2	103	126	132
120									50.0	85.7	119	125
110									39.4	47.0	83.8	82.9

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 9 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
O,KP	1	1	1	1	1	1	1	1	2	F2	F2	F1
HMIN	107	105	106	108	108	107	108	200	200	238		
SCAT	39.2	28.9	60.8	35.3	29.0	45.1	35.2	24.5	38.0	42.4		
HMAXF	261	248	280	247	236	244	255	247	262	333		
SHMAX	587	520	700	406	330	313	288	120	75	86		
KM												
340										141		
330										141		
320										138		
310										130		
300										119		
290										106		
280			758							90.2		
270	874		753						163	72.4		
260	874		738				491		163	51.6		
250	855	858	712	621		428	489	392	160	31.4		
240	815	842	681	615	567	427	468	383	150	12.4		
230	731	777	626	586	560	418	428	344	134			
220	595	656	543	532	523	399	369	260	108			
210	437	501	453	447	449	369	292	113	74.0			
200	319	376	370	346	348	322	211	12.4	12.4			
190	264	300	305	270	270	268	149					
180	242	263	268	229	221	219	106					
170	226	244	245	200	193	178	79.5					
160	189	227	225	163	167	146	64.8					
150	152	205	202	136	141	123	55.4					
140	141	175	175	124	118	105	49.2					
130	135	151	153	118	101	89.1	45.1					
120	132	137	134	115	92.8	80.7	42.0					
110	109	107	69.6	64.7	63.1	54.0	17.8					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 10 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
O,KP	F1	1	0	F0	A0	F0	F0	S0	1	A1	A1	A0
HMIN	216	220	224	231	209	202			108	109		
SCAT	32.8	31.9	27.9	34.4	33.2	29.9			28.7	29.7		
HMAXF	277	293	279	296	262	257			233	224		
SHMAX	86	100	93	135	123	86			250	267		
KM												
300		226		310								
290		225		308								
280	206	216	257	293								
270	203	196	251	265	326							
260	192	164	228	226	326	232						
250	170	124	188	159	315	229						
240	139	72.5	128	65.1	290	213			489			
230	88.6	37.4	46.1		242	184			488	450		
220	28.3	3.9			125	132			466	448		
210					23.7	53.2			414	425		
200									315	376		
190									223	309		
180									163	252		
170									124	210		
160									98.6	177		
150									82.5	149		
140									74.2	127		
130									70.4	107		
120									67.8	99.2		
110									47.2	37.2		

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 10 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
O,KP	A0	A0	1	A1	A1	A0	A0	A0	2	2	2	1
HMIN		108	109					200	189	208	240	258
SCAT		31.8	43.5					23.1	27.3	55.3	34.6	32.5
HMAXF		263	275					246	238	323	331	341
SHMAX		614	626					205	62	68	72	80
KM												
350												163
340											132	163
330										89.0	132	159
320										88.9	129	146
310										87.8	120	127
300										85.2	107	100
290										81.0	92.2	73.5
280			747							75.5	74.9	51.0
270		1008	744							68.4	56.6	32.5
260		1005	724							59.8	38.9	12.4
250		963	684					714		50.3	24.1	
240		870	624					703	178	40.8		
230		716	547					633	174	31.5		
220		518	458					471	158	21.8		
210		357	379					191	129	6.2		
200		286	323					12.4	82.6			
190		254	288						22.1			
180		235	267									
170		224	250									
160		217	232									
150		182	207									
140		158	175									
130		148	155									
120		139	137									
110		39.4	33.2									

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 11 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F1	F1	F0	0	0	3	F3	S3	3	3	3	A2
HMIN	248		236	212	204	199	198	110	108	108	109	108
SCAT	37.0		28.6	24.6	26.5	45.2	29.2	31.6	27.7	36.6	40.4	36.2
HMAXF	326		301	261	254	277	276	244	221	227	247	249
SHMAX	84		71	63	55	51	57	124	197	283	397	488
KM												
330	170											
320	169											
310	163		178									
300	150		177									
290	132		171									
280	105		153			89.0	120					
270	65.8		126	197		88.4	118					
260	38.0		84.6	196	163	85.8	110					
250	12.4		44.8	186	162	80.7	97.9	226			507	701
240			18.4	160	151	74.0	82.7	225			504	690
230				109	129	63.9	64.6	215	369	430	485	653
220				47.6	92.9	50.2	45.8	193	369	426	452	589
210					35.1	34.6	30.1	163	356	408	401	486
200						12.4	12.4	128	317	373	342	376
190								93.5	259	320	292	306
180								63.8	198	262	257	269
170								44.6	151	215	236	247
160								32.8	121	182	216	232
150								27.9	97.4	156	195	215
140								25.5	85.8	136	168	195
130								24.0	80.4	121	146	174
120								21.1	66.1	105	126	152
110								13.0	38.1	73.8	41.8	38.1

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 11 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A2	A2	A4	A4	4	A4	A4	A4	5	5	5	3
HMIN			109		108	109		230	200	199	205	257
SCAT			52.0		34.6	42.3		31.1	26.4	33.6	48.3	37.2
HMAXF			268		251	257		288	254	273	312	347
SHMAX			559		399	379		335	191	152	171	130
KM												
350												241
340												238
330												228
320											259	208
310											259	184
300											255	151
290								898			246	113
280								885		331	231	73.9
270			621					826		330	211	42.6
260			618		639	531		719	567	317	185	16.2
250			602		639	528		507	564	290	151	
240			576		624	511		164	530	250	112	
230			538		583	477		12.4	453	196	76.4	
220			487		508	431			310	122	45.0	
210			426		396	365			121	56.3	20.2	
200			364		287	289			12.4	12.4		
190			309		228	227						
180			272		201	186						
170			247		170	157						
160			229		141	136						
150			209		123	117						
140			186		115	98.3						
130			155		110	85.7						
120			139		105	78.4						
110			29.7		43.7	23.7						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 12 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	3	3	F3	F3	3	S3	2	2	2	3
HMIN	256	226	217	208	219	241	231	110	108	108	107	109
SCAT	34.7	36.9	33.4	18.8	35.5	30.4	32.6	27.0	27.9	33.6	37.8	36.1
HMAXF	341	298	288	244	290	313	304	243	236	227	248	258
SHMAX	108	104	131	43	73	63	86	132	222	284	405	481
KM												
350	214											
340	214											
330	209											
320	195					142						
310	172					142	188					
300	142	224				136	187					
290	109	221	297		155	122	179					
280	71.4	211	293		152	102	163					
270	41.7	192	276		143	78.8	137					
260	18.4	163	245		127	50.6	106					636
250		117	196	187	104	26.5	69.6	271			556	627
240		56.8	129	185	74.7		35.6	271	446		550	595
230		23.0	63.4	161	43.5			256	442	450	524	537
220			21.6	93.3	12.4			223	411	446	479	461
210				20.5				172	349	423	410	385
200								123	256	380	340	323
190								83.5	167	320	287	282
180								57.1	105	262	250	255
170								41.4	82.3	216	221	236
160								33.8	75.0	181	192	215
150								29.6	70.9	152	158	190
140								27.9	68.1	128	138	160
130								26.3	66.6	113	127	141
120								22.3	65.0	102	122	133
110								13.0	43.4	62.1	93.7	41.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 12 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A3	A3	A4	A4	A4	A4	A4	A4	2	2	2	3
HMIN	106		107	108	108			210	201	212	212	279
SCAT	36.3		45.1	32.6	35.5			34.4	39.5	41.0	38.2	43.8
HMAXF	259		293	269	242			266	268	292	292	359
SHMAX	554		876	759	455			226	131	102	89	67
KM												
360												118
350												117
340												112
330												105
320												94.5
310												80.1
300			1070							196	178	62.5
290			1069							196	178	41.7
280			1047							192	174	12.4
270			999	1281				583	281	182	163	
260	782		924	1259				579	279	166	147	
250	771		817	1175	747			553	267	143	121	
240	731		688	1034	747			504	247	109	88.0	
230	660		568	798	727			393	213	64.6	52.2	
220	556		453	571	678			176	156	32.7	26.4	
210	435		370	409	597			12.4	60.6			
200	337		317	314	472							
190	287		283	268	346							
180	259		261	243	256							
170	241		243	224	214							
160	224		225	206	188							
150	204		201	186	161							
140	175		170	163	136							
130	151		144	138	120							
120	136		130	123	110							
110	101		39.4	31.7	79.1							

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 13 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	2	2	2	3	3	S3	3	3	3	3
HMIN	277	259	277	249	204	200	198	110	108	107	108	106
SCAT	35.4	35.6	38.4	35.9	18.7	30.0	31.2	34.5	30.5	36.4	27.3	46.1
HMAXF	347	337	350	312	243	245	260	250	230	245	234	249
SHMAX	69	80	93	97	75	35	36	114	219	362	379	429
KM												
360			187									
350	148		187									
340	147	163	183									
330	140	161	174									
320	127	153	158	222								
310	107	139	132	221								
300	80.8	117	100	215								
290	49.7	89.5	63.1	201								
280	19.9	59.9	21.7	177								
270		34.5		136			85.0					
260		4.7		73.7			85.0					
250				12.4	310	97.6	82.7	189		515		489
240					308	96.9	76.0	185		512	645	484
230					270	91.4	64.8	173	385	493	641	468
220					176	80.4	50.7	152	375	455	602	439
210					47.7	61.4	33.0	126	343	397	518	402
200						12.4	12.4	97.6	293	331	405	364
190								72.1	234	277	317	328
180								53.1	179	235	267	297
170								40.9	138	203	236	268
160								32.9	110	175	208	243
150								29.0	92.8	149	182	217
140								26.9	80.3	129	157	188
130								25.7	68.3	113	137	157
120								22.8	61.1	99.6	119	137
110								13.0	33.1	73.4	97.9	125

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 13 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	3	3	A2	2	A2	A4	A4	A4	4	4	4	3
HMIN	104	108	103	108	104	109		200	203	199	205	260
SCAT	32.0	37.5	42.6	37.8	44.1	48.9		34.6	34.6	63.8	45.6	39.5
HMAXF	252	260	260	263	269	289		261	268	327	286	343
SHMAX	532	542	505	563	515	574		319	124	150	94	62
KM												
350												113
340												113
330										171		110
320										171		104
310										168		93.9
300										163		81.2
290						707				156	174	64.6
280						701				147	173	46.7
270		842	639	747	639	681		779	284	137	168	28.0
260	782	842	639	746	632	645		778	280	126	160	1.9
250	782	827	630	724	609	596		758	265	112	145	
240	757	782	603	676	569	534		704	238	95.8	122	
230	694	705	557	601	514	460		612	194	77.6	85.5	
220	591	595	497	509	444	377		438	133	58.2	48.1	
210	468	470	414	424	371	301		173	50.6	37.8	20.7	
200	369	360	343	356	312	239		12.4		12.4		
190	307	301	290	305	268	193						
180	273	267	254	268	235	159						
170	253	246	222	242	209	131						
160	240	229	183	221	183	106						
150	228	209	165	198	156	90.6						
140	206	166	152	167	129	85.4						
130	179	146	144	149	113	82.8						
120	146	138	139	125	106	76.1						
110	131	49.1	128	41.8	38.1	27.3						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 14 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	2	2	2	2	2	S2	2	2	2	2
HMIN	268	270	236	208	200	205	221	110	110	108	109	108
SCAT	37.2	40.8	29.6	21.2	23.4	31.6	47.7	38.4	35.1	24.6	37.7	38.8
HMAXF	351	346	302	252	235	259	302	246	248	224	245	236
SHMAX	69	80	77	67	32	29	45	110	269	276	405	392
KM												
360	135											
350	135	155										
340	132	154										
330	124	148										
320	111	139										
310	92.3	123	195				74.7					
300	69.6	99.0	195				74.7					
290	47.6	70.1	187				73.5					
280	28.4	38.6	169				70.8					
270	7.7	3.9	136				66.3					
260			91.3	247		73.4	60.1					
250			46.6	247		72.0	51.0	170	411		588	
240			18.8	227	122	67.1	40.1	169	405		586	534
230				170	121	57.8	26.6	162	384	522	566	530
220				76.1	111	42.7		151	346	518	525	511
210				18.4	81.0	20.7		133	295	479	458	474
200					12.4			109	243	398	366	418
190								85.0	197	307	295	356
180								64.4	157	234	252	300
170								49.5	127	193	225	262
160								39.1	105	163	200	239
150								33.1	90.7	138	171	217
140								30.4	82.0	121	141	191
130								28.2	65.3	112	127	156
120								23.7	59.3	92.2	116	139
110								13.0	12.4	60.7	38.1	81.4

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 14 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	A2	4	4	4	4	4	S4	S2	2	2	3
HMIN	106		109	108	110	109	109	200	200	199	227	238
SCAT	33.4		37.2	36.8	50.4	43.5	42.6	23.2	23.6	45.3	46.1	39.4
HMAXF	253		269	267	281	285	281	249	252	306	333	317
SHMAX	513		617	641	614	644	592	231	119	85	79	83
KM												
340											118	
330											118	
320											116	163
310										122	111	161
300										121	103	155
290					707	898	976			118	92.2	144
280					707	896	976			111	79.5	126
270			819	923	699	873	961			102	64.4	97.8
260	714		808	915	676	826	919		373	93.0	50.4	64.4
250	712		767	875	641	756	850	782	372	82.4	37.1	36.5
240	687		696	801	590	655	747	753	347	70.8	25.4	12.4
230	628		604	686	526	527	579	651	290	58.4	12.4	
220	545		505	548	453	395	389	423	197	43.0		
210	448		412	428	384	297	249	147	77.1	26.6		
200	366		345	340	322	232	163	12.4	.4	3.1		
190	313		302	291	273	196	115					
180	278		273	259	235	170	86.7					
170	255		250	236	206	148	67.9					
160	238		226	212	182	127	54.4					
150	220		197	185	158	104	47.7					
140	201		156	159	133	89.0	44.3					
130	164		137	130	113	82.1	42.5					
120	140		131	121	101	78.9	41.3					
110	121		41.8	69.4	12.4	27.3	12.4					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 15 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	2	S2	2	2	2	S2	1	1	1	4
HMIN	250	282	242	233	216	200	197	110	109	108	107	105
SCAT	48.4	34.4	28.6	30.5	28.5	25.7	43.2	32.2	34.3	29.7	23.1	46.8
HMAXF	348	349	307	299	272	245	293	246	239	243	239	239
SHMAX	100	81	86	95	84	56	56	121	241	374	441	416
KM												
350	156	176										
340	155	173										
330	151	162										
320	143	145										
310	132	119	215									
300	115	88.6	212	229			88.2					
290	95.3	50.3	196	223			88.1					
280	73.8		167	205	232		86.2					
270	48.7		128	176	232		81.6					
260	28.0		80.0	135	222		75.3					
250	1.9		35.8	77.1	199	173	67.2	215		594		
240				34.1	152	171	57.8	214	390	592	850	536
230					85.7	158	47.1	202	384	564	818	531
220					27.8	131	35.9	181	360	502	707	514
210						88.2	25.4	147	321	419	542	485
200						12.4	12.4	109	269	338	389	443
190								78.6	213	276	293	389
180								57.8	164	233	249	323
170								44.6	128	202	223	270
160								35.9	104	175	200	240
150								31.1	88.2	150	177	210
140								28.6	74.4	129	153	173
130								27.6	63.3	116	133	145
120								25.7	60.1	99.9	122	134
110								15.6	32.9	52.7	98.9	104

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 15 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A4	4	A4	A4	4	2	2	2	2	2	2	3
HMIN	109	106	108		108	109	115	201	199	223	259	227
SCAT	33.7	50.0	33.8		44.2	39.2	28.2	30.3	31.3	33.1	30.1	45.9
HMAXF	241	257	266		285	276	245	267	261	315	324	330
SHMAX	411	504	602		644	692	406	181	138	101	89	125
KM												
330											221	188
320										189	220	186
310										188	209	179
300										178	187	167
290					779					162	151	153
280					776	1080				143	102	137
270			850		756	1074		442	354	120	47.0	118
260		554	844		716	1037		436	354	93.1	12.4	95.9
250	610	551	804		655	964	936	408	343	64.4		67.8
240	610	538	728		582	855	930	355	314	39.8		40.5
230	594	515	614		496	692	874	279	255	22.2		16.2
220	553	478	487		410	518	755	176	164			
210	476	430	386		337	361	544	77.4	66.8			
200	387	380	323		283	267	328		12.4			
190	311	335	284		245	214	189					
180	269	299	263		218	181	118					
170	244	273	246		198	157	88.6					
160	221	252	228		181	135	72.7					
150	187	232	208		161	114	61.9					
140	160	211	190		137	92.2	55.6					
130	146	178	155		123	82.5	52.8					
120	139	154	135		108	79.4	30.9					
110	41.8	126	80.8		73.3	33.2						

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 16 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F3	3	3	3	3	6	F6	S6	5	5	5	5
HMIN	276	283	230	209	208	217			107	108	109	109
SCAT	36.0	32.6	30.5	26.9	33.4	52.4			39.9	32.5	52.9	45.0
HMAXF	357	349	298	258	274	330			255	242	287	304
SHMAX	94	83	84	65	63	116			352	363	614	1032
KM												
360	186											
350	184	187										
340	176	183										
330	160	171				160						
320	137	150				159						
310	109	123				155						1212
300	75.0	87.1	198			148						1209
290	43.9	43.2	195			137					651	1181
280	18.4		181		141	123					648	1118
270			158		141	107					635	1035
260			123	197	135	89.4			541		609	930
250			77.9	192	123	70.5			539	575	571	810
240			39.2	175	105	50.1			522	574	524	687
230			3.1	138	82.0	31.6			489	554	468	571
220				72.1	47.0	15.2			437	505	411	464
210				12.4	16.5				363	436	358	384
200									280	348	312	327
190									214	280	273	287
180									160	230	243	259
170									121	195	216	239
160									97.5	168	188	219
150									82.2	145	160	198
140									71.6	124	138	175
130									64.7	106	129	151
120									62.2	96.2	124	138
110									25.1	34.0	25.1	26.0

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 16 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	5	5	5	5	5	5	5	5	4	4	4	A3
HMIN	108	107	109	108	108	109	108	204	202	211	249	234
SCAT	36.0	41.8	52.8	38.6	39.7	40.1	36.5	31.7	44.9	56.4	35.8	32.2
HMAXF	286	276	313	276	277	273	269	270	293	340	333	314
SHMAX	1015	862	1069	910	838	705	607	310	220	163	154	135
KM												
340										204	309	
330										202	308	
320			1121							198	298	284
310			1120							190	275	283
300			1104						374	178	241	271
290	1491		1069						374	164	194	245
280	1481	1173	1009	1298	1217	1080			367	147	141	208
270	1418	1167	937	1290	1209	1078	1065	782	351	128	82.5	166
260	1298	1130	850	1241	1164	1051	1049	764	324	108	41.5	118
250	1126	1057	756	1145	1080	990	993	705	290	86.2	12.4	69.2
240	928	953	654	1016	962	895	897	607	242	63.6		28.8
230	729	814	553	866	806	771	738	427	185	43.0		
220	554	648	462	696	641	616	548	164	113	25.1		
210	426	497	388	540	485	447	374	40.1	46.1			
200	349	381	333	412	371	327	249					
190	299	316	293	325	293	240	175					
180	264	279	262	274	240	184	131					
170	238	252	238	239	204	149	105					
160	215	226	214	212	178	125	88.1					
150	188	201	193	187	155	104	76.6					
140	163	177	171	160	131	89.2	68.0					
130	150	160	152	137	112	81.5	61.8					
120	144	152	140	127	105	75.3	58.3					
110	39.4	113	41.8	80.2	79.3	26.0	31.7					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 17 FE8 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	4	A4	A4	A3	3	S3	1	1	1	A1
HMIN	233	224	233	228	208	239	237	110	109	107	106	108
SCAT	28.2	39.4	35.1	29.9	38.4	38.5	44.5	35.2	31.7	24.9	29.1	36.3
HMAXF	306	304	320	289	276	335	329	261	240	243	236	244
SHMAX	128	153	133	135	113	120	115	170	303	487	490	481
KM												
340						212						
330						211	197					
320			259			204	195					
310	309	297	254			189	188					
300	305	297	238			170	176					
290	283	288	213	358		145	160					
280	241	269	182	350	247	117	136					
270	189	241	144	321	246	84.9	107	295				
260	127	198	97.5	269	237	55.3	70.4	295				
250	66.4	144	52.8	183	220	30.3	39.8	288	541	941		710
240	30.6	80.5	26.0	76.8	193	6.8	16.0	270	541	938	932	708
230		32.2		20.5	141			238	527	878	922	683
220					64.2			190	486	740	860	631
210					17.8			140	413	568	738	550
200								98.4	316	415	537	452
190								68.3	232	306	354	359
180								50.1	177	245	275	296
170								39.2	139	210	236	256
160								33.1	111	182	205	228
150								29.7	91.8	157	174	195
140								28.1	79.5	137	149	160
130								27.2	73.3	121	134	142
120								23.8	63.1	107	127	134
110								13.0	32.9	88.9	93.6	85.6

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 17 FE8 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A1	A1	A2	A2	A2	A1	A1	A1	A0	A0	A0	A1
HMIN	107	108	105					210	200		281	252
SCAT	31.0	39.5	40.0					27.5	32.4		33.2	45.5
HMAXF	229	235	264					265	249		342	340
SHMAX	398	402	539					264	97		83	111
KM												
350											196	185
340											195	185
330											189	183
320											174	176
310											152	164
300											121	149
290											57.2	128
280												101
270			651					744				70.1
260			649					739				36.4
250			630					691	259			
240		562	591					595	254			
230	651	559	531					448	236			
220	638	541	459					177	205			
210	593	507	392					12.4	140			
200	509	446	340						12.4			
190	408	370	304									
180	319	309	278									
170	271	269	258									
160	245	240	235									
150	214	206	207									
140	180	174	174									
130	156	156	152									
120	146	147	140									
110	66.3	111	120									

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 18 FE8 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	A1	1	1	A1	A2	A2	S2	1	1	1	1
HMIN	238	222	210	202	224	271	217	110	108	108	105	109
SCAT	30.9	26.6	22.6	34.5	36.6	32.3	42.7	35.7	35.3	32.3	31.8	36.6
HMAXF	302	281	255	258	286	334	308	252	245	251	247	260
SHMAX	88	88	69	68	68	49	98	157	337	503	523	660
KM												
340						111						
330						110						
320						105						
310	215					94.8	170					
300	215					80.6	169					
290	208	247			156	63.4	163					
280	189	247			155	38.7	152					
270	157	237			149		137					985
260	113	210	236	170	137		114	231		850		985
250	55.2	162	234	168	116		87.5	231	562	850	858	966
240	16.5	90.2	211	159	79.5		60.3	225	558	825	848	910
230		36.9	161	143	33.8		36.0	209	535	761	798	817
220			78.2	111			16.0	186	490	641	703	668
210				47.6				160	404	483	556	503
200								134	308	361	412	380
190								107	234	284	321	314
180								84.3	181	235	274	280
170								69.0	144	199	245	259
160								58.2	118	170	217	239
150								50.3	99.5	147	188	211
140								44.5	88.6	129	160	179
130								40.7	83.7	115	141	157
120								34.3	67.3	105	132	146
110								13.0	28.9	73.9	89.5	41.8

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 18 FE8 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	1	S3	A3	A3	A2	A2	A2	A0	A0	A0	1
HMIN	109	109		109	109			201	200	208	237	213
SCAT	33.7	33.1		49.6	41.8			24.6	28.3	47.3	31.2	36.2
HMAXF	251	239		247	243			264	249	312	300	298
SHMAX	681	549		460	391			212	108	122	86	111
KM												
320										186		
310										186	206	
300										183	206	215
290										176	200	213
280										165	183	202
270								594		150	158	183
260	1163							589		132	120	157
250	1162			567	534			541	302	110	71.3	127
240	1130	898		564	533			446	293	83.1	24.0	89.5
230	1050	882		549	521			312	266	54.2		50.3
220	882	824		524	493			186	221	31.4		25.0
210	658	723		488	450			70.0	145	12.4		
200	448	562		434	389				12.4			
190	342	412		369	323							
180	296	331		311	266							
170	269	294		271	227							
160	246	266		239	198							
150	217	237		211	175							
140	183	207		184	150							
130	161	176		150	128							
120	152	160		138	116							
110	41.8	48.8		33.0	33.3							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 19 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	2	2	2	1	1	A1	1	B1	B1	0
HMIN	221	239	203	209	203	231	222	118	110			109
SCAT	29.9	39.5	35.8	20.3	41.3	45.1	35.4	32.6	30.5			35.4
HMAXF	286	309	268	243	282	315	310	250	236			247
SHMAX	89	118	87	54	56	70	68	158	329			613
KM												
320						117						
310		235				116	129					
300		232				114	127					
290	226	221			102	108	119					
280	224	203			102	99.3	107					
270	210	177	196		100	87.7	89.7					
260	184	141	193		94.8	73.5	69.3					
250	138	88.3	183	229	86.7	57.2	49.6	261				936
240	78.7	21.8	166	227	76.1	36.5	33.9	256	591			928
230	37.9		136	205	62.1		20.4	237	585			885
220			96.1	139	43.3			209	550			804
210			40.4	25.1	23.0			173	484			672
200								138	390			529
190								106	298			404
180								82.5	225			328
170								65.3	171			288
160								53.9	136			263
150								46.8	114			239
140								43.3	98.3			213
130								32.2	90.8			196
120								17.9	74.1			187
110									12.4			39.4

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 19 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	0	0	0	0	0	0	0	0	0	0	A0	0
HMIN	108	108	108	108	109	109	110	201	204	217	227	218
SCAT	44.8	39.5	41.9	36.2	40.6	34.5	36.3	39.6	33.6	55.3	31.3	37.4
HMAXF	275	267	263	264	266	258	264	281	279	326	313	301
SHMAX	792	764	669	606	593	447	377	259	140	174	118	122
KM												
330										247		
320										247	243	
310										242	242	240
300										234	232	239
290								515		223	209	234
280	932							514	309	205	180	219
270	929	1031	898	815	808		681	505	303	182	144	198
260	907	1023	897	813	804	681	679	479	284	149	102	167
250	862	984	878	785	778	673	656	437	251	109	62.8	126
240	792	912	833	727	727	637	607	365	203	70.8	37.2	78.3
230	704	804	762	637	649	572	528	273	136	41.6	16.0	39.1
220	612	668	662	537	540	483	402	161	71.8	16.2		12.4
210	521	527	539	449	430	389	266	64.5	30.7			
200	444	424	422	377	344	310	172					
190	382	354	336	325	287	251	111					
180	335	312	292	288	250	208	82.1					
170	300	285	264	255	224	174	66.1					
160	272	262	240	223	200	144	58.0					
150	249	237	210	193	176	119	53.2					
140	224	206	183	166	150	106	50.2					
130	200	188	169	150	134	98.8	48.5					
120	187	180	160	144	126	95.3	46.3					
110	39.4	81.5	54.9	80.8	59.8	41.8	.4					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 20 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	F0	1	1	1	F1	F1	S1	2	2	2	0
HMIN	229	248	219	201	200	237	243	109	110	109	108	108
SCAT	32.9	35.0	28.4	20.9	41.3	45.5	35.9	35.0	44.7	43.6	35.8	46.3
HMAXF	304	318	282	247	262	336	333	240	251	252	256	281
SHMAX	108	110	103	82	85	70	70	171	320	475	565	740
KM												
340						108	130					
330						108	130					
320		246				105	125					
310	234	243				99.2	115					
300	233	230				91.1	102					
290	223	206	271			81.1	84.4					894
280	202	170	271			69.1	64.6					894
270	169	112	258		179	55.5	46.8					882
260	131	52.2	229		179	40.9	32.1		426	636	819	850
250	85.6	17.2	176	297	176	27.3	19.3	297	426	636	813	799
240	44.0		109	290	167	12.4		297	419	623	776	720
230	12.4		50.8	251	153			291	402	593	708	613
220			12.4	169	132			273	372	548	607	498
210				57.2	89.1			242	337	487	477	402
200					12.4			195	296	407	380	340
190								143	249	334	316	302
180								102	199	276	276	276
170								76.7	158	232	248	254
160								60.6	126	199	221	229
150								50.3	105	171	198	202
140								43.5	92.8	144	169	169
130								40.1	82.8	125	144	151
120								31.5	69.3	109	135	144
110								12.4	12.4	41.8	103	81.1

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 20 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	0	A0	A0	A0	A0	A1	A1	A1	A0	A0	A0	A0
HMIN	109	108						208		258	231	203
SCAT	36.9	40.5						35.1		35.7	32.3	32.1
HMAXF	268	277						282		354	343	279
SHMAX	728	802						162		127	144	134
KM												
360										229		
350										228	259	
340										220	258	
330										201	248	
320										180	225	
310										151	194	
300										119	161	
290								354		86.8	126	
280		1031						354		57.0	94.4	311
270	1080	1024						344		33.1	70.0	305
260	1068	986						318		12.4	50.6	283
250	1018	914						278			34.9	249
240	933	822						220			21.6	186
230	800	711						129				106
220	637	586						60.8				59.9
210	460	472						17.2				29.5
200	351	390										
190	297	333										
180	266	295										
170	244	271										
160	210	241										
150	186	206										
140	171	182										
130	162	166										
120	156	158										
110	33.2	87.2										

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 21 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F0	0	2	2	A2	A1	1	S1	A3	A3	A3	A3
HMIN		229	214	202	219	241	220					
SCAT		31.5	29.5	34.2	44.5	34.9	37.8					
HMAXF		291	268	266	313	314	304					
SHMAX		84	70	69	87	76	89					
KM												
320					140	156						
310					140	156	171					
300		204			137	150	171					
290		204			131	138	165					
280		197			121	120	154					
270		180	193	163	108	98.1	136					
260		152	190	162	92.0	71.2	111					
250		111	175	155	74.3	38.1	81.1					
240		53.6	147	141	53.9		52.0					
230		12.4	98.6	115	31.6		28.2					
220			34.2	73.8	5.9		1.9					
210				34.9								

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 21 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A3	A3	A2	A2	A2	A1	A1	A1	F4	F4	F4	A3
HMIN								201	213	257	240	199
SCAT								29.2	35.3	38.0	34.9	27.2
HMAXF								271	286	351	323	273
SHMAX								198	159	169	148	150
KM												
360										309		
350										309		
340										302		
330										284	297	
320										258	297	
310										225	287	
300										182	262	
290									342	130	232	
280								512	339	78.8	190	358
270								512	324	42.1	135	357
260								495	295	16.2	80.7	338
250								448	256		40.2	295
240								360	199		3.1	234
230								218	109			171
220								111	37.0			115
210								43.4				61.9
200												12.4

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 22 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A3	A3	A3	F3	A3	A3	3	S3	3	3	3	A3
HMIN	219	210	250			219	271		110	105	110	
SCAT	28.9	36.6	26.5			32.6	40.4		30.9	69.4	41.1	
HMAXF	278	307	309			302	357		251	332	281	
SHMAX	96	148	97			97	101		322	996	1026	
KM												
360							178					
350							176					
340							170			854		
330							158			854		
320							142			848		
310		271	271			197	124			833		
300		269	263			196	99.4			809		
290		257	236			190	68.7			773	1464	
280	257	234	190			174	36.4			732	1463	
270	252	203	117			152				686	1437	
260	231	167	50.8			125			546	635	1367	
250	195	126	1.7			95.4			546	578	1253	
240	134	82.3				59.9			529	516	1085	
230	59.7	52.1				33.0			481	455	879	
220	12.4	29.2				5.4			407	399	673	
210		.4							315	350	517	
200									247	308	404	
190									194	271	327	
180									153	238	280	
170									122	206	246	
160									99.1	173	216	
150									87.8	144	189	
140									82.5	126	168	
130									79.9	115	149	
120									75.6	110	139	
110									12.4	71.7	19.7	

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 22 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A3	83	1	A1	1	1	1	1	1	1	F1	F3
HMIN		109	108		108	108	109	208	200	214	270	248
SCAT		46.1	53.7		38.6	44.0	33.3	35.0	43.9	47.5	32.6	32.6
HMAXF		283	288		272	279	257	281	281	334	344	319
SHMAX		949	958		750	620	425	238	179	216	172	147
KM												
350											374	
340										310	373	
330										309	358	
320										303	324	326
310										290	279	319
300										269	221	297
290		1184	1080					512	320	243	148	261
280		1183	1073		1051	858		512	320	212	65.1	212
270		1161	1048		1050	849		500	316	177	.4	149
260		1110	1004		1024	819	761	467	303	142		82.1
250		1031	942		956	764	754	413	281	103		18.4
240		922	860		869	690	711	337	251	69.6		
230		783	750		755	590	640	237	210	43.6		
220		634	621		628	476	537	109	158	22.2		
210		507	507		493	371	403	26.7	82.2			
200		408	411		383	284	284		12.4			
190		349	348		309	220	198					
180		311	307		261	176	142					
170		280	278		227	142	107					
160		250	252		198	117	86.4					
150		219	224		172	96.1	73.4					
140		193	193		148	85.2	64.7					
130		176	169		129	79.6	59.3					
120		166	154		117	76.6	56.7					
110		39.4	80.9		75.7	57.1	25.1					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 23 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F3	F3	1	1	1	F3	F3	S3	3	A3	A3	A3
HMIN			227	219	200	218	220	110	117		109	
SCAT			22.4	31.2	22.2	47.2	41.4	38.3	44.2		38.8	
HMAXF			277	283	237	321	315	257	270		285	
SHMAX			116	150	62	99	90	188	411		878	
KM												
330						148						
320						148	149					
310						146	148					
300						140	144					
290				368		131	135				1240	
280			392	367		120	122				1234	
270			383	353		107	106		562		1192	
260			339	319		92.4	88.1	265	554		1104	
250			246	267		75.2	68.5	263	533		986	
240			109	188	236	54.0	47.7	252	499		827	
230			25.5	91.3	230	31.0	28.4	230	444		658	
220				12.4	200	12.4	1.1	204	370		494	
210					126			173	299		384	
200					12.4			143	239		316	
190								117	192		277	
180								95.0	154		246	
170								78.7	125		214	
160								66.1	105		180	
150								56.5	97.6		162	
140								51.0	94.3		149	
130								44.4	78.9		141	
120								32.8	58.2		134	
110								12.4			33.8	

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 23 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A3	A3	A1	B1	A1	A2	A2	A2	A1	S1	A1	F2
HMIN					109			221	204	237	285	
SCAT					52.4			37.6	36.3	35.6	37.1	
HMAXF					281			289	278	328	360	
SHMAX					778			356	183	163	161	
KM												
360											326	
350											320	
340											303	
330										311	273	
320										307	236	
310										291	185	
300										262	104	
290					954			779		228	31.7	
280					954			767	392	183		
270					943			728	387	126		
260					916			661	367	76.2		
250					875			550	332	41.8		
240					807			376	281	16.2		
230					713			139	202			
220					589				103			
210					466				34.2			
200					362							
190					294							
180					249							
170					214							
160					184							
150					160							
140					144							
130					133							
120					126							
110					39.4							

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 24 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	A2	A2	2	2	A2	F2	F2	S2	2	2	2	2
HMIN	227	214	201	208	201	228	223	110	109	107	108	110
SCAT	28.9	22.3	23.5	29.5	35.9	43.5	40.6	31.9	32.7	46.5	44.8	40.7
HMAXF	288	254	254	272	265	331	304	255	246	275	278	272
SHMAX	165	118	98	88	92	109	71	181	352	671	901	919
KM												
340						171						
330						171						
320						168						
310						161	130					
300						149	130					
290	450					134	126					
280	441			215		117	118			846	1184	1292
270	405			215	197	96.6	107			844	1175	1292
260	336	450	311	207	195	73.4	93.9	297		824	1136	1264
250	211	446	309	186	188	49.9	73.7	295	588	785	1066	1198
240	86.3	403	284	156	172	30.6	48.6	280	583	725	970	1092
230	25.1	293	230	112	150	12.4	24.3	250	552	645	837	943
220		65.9	143	58.3	120			213	493	540	676	764
210			51.2	17.2	82.1			172	404	441	524	595
200								132	311	356	406	445
190								100	242	295	334	361
180								76.4	189	250	290	313
170								60.2	150	213	257	283
160								50.6	123	183	227	254
150								44.6	105	157	199	223
140								41.0	94.8	138	174	193
130								39.5	90.1	126	156	174
120								31.7	80.6	120	146	165
110								17.1	25.1	89.0	73.8	12.4

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 24 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	2	3	3	3	1	1	1	1	1	F1	1
HMIN	109	109	109	108	109	109	108	209	200	212	255	237
SCAT	47.0	43.6	42.3	56.9	47.6	59.5	39.9	42.4	38.5	36.5	34.9	37.0
HMAXF	290	293	295	307	293	309	288	300	303	312	343	327
SHMAX	994	1115	1139	1207	937	1001	679	520	338	235	184	189
KM												
350											371	
340											370	
330											358	369
320										430	329	366
310				1298		1080		941	594	430	290	350
300		1417	1477	1293	1121	1074		941	593	418	239	319
290	1184	1415	1472	1269	1120	1052	1080	927	576	389	168	276
280	1171	1384	1431	1224	1100	1015	1070	888	537	347	89.9	215
270	1131	1315	1347	1159	1056	963	1027	822	484	295	47.2	148
260	1063	1208	1225	1074	986	895	950	723	420	233	21.2	83.0
250	971	1071	1069	966	899	811	838	585	342	170		42.9
240	855	907	895	840	798	718	700	428	250	103		16.2
230	721	727	716	704	685	612	550	247	156	55.5		
220	594	564	564	577	567	502	384	84.9	86.0	28.1		
210	483	448	443	463	461	398	251	12.4	40.5			
200	403	374	364	379	371	317	165		3.1			
190	347	330	318	324	306	254	116					
180	310	301	287	287	261	207	89.8					
170	284	278	262	258	226	172	74.6					
160	259	254	240	233	195	144	64.4					
150	224	228	214	201	166	120	57.7					
140	191	198	185	176	139	100	52.6					
130	173	177	167	157	125	92.6	49.2					
120	165	166	159	145	120	85.1	47.2					
110	25.1	38.1	39.4	38.7	39.4	27.3	16.8					

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 25 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	F1	1	2	2	F2	F1	1	S1	2	2	2	2
HMIN	228	200	199	211	230	255	209	110	109	109	108	109
SCAT	26.4	29.5	26.7	26.6	35.1	38.3	30.3	26.7	29.8	48.9	46.6	46.0
HMAXF	293	264	257	272	301	340	278	238	238	254	277	289
SHMAX	131	156	112	98	118	129	98	175	328	514	726	934
KM												
340						247						
330						244						
320						231						
310					259	210						
300	342				259	182						
290	340				253	144						1080
280	321			259	235	96.0	229				898	1069
270	277	405		259	208	50.9	224				893	1032
260	221	403	311	245	166	21.2	207			675	869	965
250	139	383	306	213	107		178			674	824	883
240	61.9	339	278	169	46.2		136	342	583	662	758	787
230	18.4	267	230	112	3.1		90.8	334	571	636	665	679
220		157	153	46.4			50.4	303	526	596	551	575
210		54.0	68.8				12.4	251	447	540	444	481
200		1.7	12.4					193	347	458	364	408
190								142	266	368	312	354
180								103	207	289	276	315
170								78.1	163	233	245	285
160								62.5	133	193	217	256
150								53.9	113	163	188	230
140								49.1	103	140	160	201
130								43.0	95.2	131	144	175
120								32.3	72.1	111	137	159
110								12.4	33.0	38.1	45.8	48.8

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 25 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	2	C2	3	3	3	3	A3	3	3	3	S3	S1
HMIN	108		108	108	109	109	111	206	199	201	220	241
SCAT	36.6		48.0	37.4	44.4	52.0	46.9	37.6	32.7	42.2	41.4	38.1
HMAXF	279		298	285	288	293	294	288	274	312	329	340
SHMAX	939		1187	997	938	887	723	502	281	199	213	195
KM												
340												342
330											358	336
320										311	354	319
310										311	340	290
300			1411			1080	1031			305	316	253
290			1400	1398	1234	1079	1029	1031		290	279	211
280	1263		1359	1392	1225	1063	1007	1021	630	266	229	167
270	1246		1286	1344	1184	1028	962	974	628	237	181	118
260	1174		1185	1242	1110	967	894	891	603	204	129	68.1
250	1071		1050	1103	1010	896	799	769	547	168	84.0	31.5
240	938		892	926	872	807	672	582	457	129	52.8	
230	791		729	733	713	687	529	355	340	90.9	28.2	
220	645		586	567	570	549	386	140	214	54.3	1.9	
210	520		470	450	450	423	267	30.2	95.0	28.8		
200	420		391	374	365	328	176		12.4			
190	360		342	323	302	261	121					
180	322		309	289	257	215	91.1					
170	296		285	262	222	180	75.7					
160	272		261	236	192	151	66.7					
150	247		237	211	164	127	61.6					
140	219		211	186	139	110	58.8					
130	188		178	160	127	99.2	56.9					
120	173		165	145	113	92.9	40.1					
110	80.7		54.4	73.8	22.3	37.2						

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 26 FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	1	1	F1	A1	F1	A2	A2	S2	3	3	3	5
HMIN	246	248	249	239	225	208	198	110	109	109	109	108
SCAT	37.6	30.9	35.2	38.2	29.6	30.4	45.5	33.6	39.7	36.0	45.0	47.5
HMAXF	337	321	324	323	284	300	300	247	248	255	286	287
SHMAX	186	180	184	217	142	151	147	204	370	476	849	1033
KM												
340	340											
330	337	409	392	430								
320	322	409	391	429								
310	294	395	377	418		299						
300	258	360	346	391		299	232					
290	214	306	304	351	385	290	229				1022	1234
280	164	232	244	291	383	263	221				1018	1228
270	112	152	156	210	364	233	206				991	1195
260	62.3	82.6	62.3	120	323	195	188			675	934	1135
250	23.9	20.6	12.4	54.1	249	150	164	358	562	672	861	1047
240				12.4	120	106	134	354	557	645	766	939
230					36.7	67.1	102	336	534	592	656	810
220						37.6	65.0	302	494	519	545	671
210						12.4	37.5	252	432	438	448	543
200							12.4	192	356	366	374	443
190								140	280	307	324	371
180								98.4	213	257	287	324
170								72.8	164	216	256	291
160								57.8	131	182	228	262
150								49.0	110	153	201	233
140								44.6	96.6	131	176	204
130								41.3	87.3	120	155	176
120								32.5	79.8	115	145	160
110								12.4	27.3	33.2	57.7	73.8

ELECTRON DENSITY

RAMEY AFB, PUERTO RICO 60 W 26 FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	A5	5	4	4	4	S3	3	3	3	3	3	3
HMIN		108	109	108	109	109	108	210	200	209	267	271
SCAT		54.3	40.8	40.3	45.8	48.8	36.4	40.2	41.1	45.9	42.5	40.0
HMAXF		323	301	292	303	307	284	295	283	328	371	370
SHMAX		1361	1287	1158	1050	1125	796	673	369	187	152	166
KM												
380											247	278
370											247	278
360											243	273
350											232	258
340											215	238
330		1411								259	190	211
320		1409								257	162	179
310		1389	1712		1275	1411				250	128	143
300		1345	1711	1605	1274	1404		1275		235	92.4	103
290		1272	1678	1604	1251	1369	1360	1270	681	216	59.7	65.9
280		1185	1594	1568	1198	1298	1355	1230	681	194	35.6	34.7
270		1071	1455	1478	1113	1208	1308	1149	665	170	15.8	
260		941	1280	1349	1009	1088	1202	1033	629	147		
250		809	1067	1176	887	937	1069	871	573	121		
240		680	848	981	748	769	890	647	493	94.0		
230		566	661	772	606	605	672	384	383	69.4		
220		467	510	577	481	472	439	124	262	41.8		
210		398	414	438	388	365	288	12.4	143	12.4		
200		352	356	353	325	288	196		12.4			
190		321	317	304	280	237	141					
180		298	290	271	247	199	109					
170		277	268	242	220	169	88.8					
160		249	249	214	194	143	75.2					
150		214	224	185	167	121	64.8					
140		187	194	158	143	104	57.8					
130		169	169	149	130	94.4	53.6					
120		160	153	144	125	90.4	50.4					
110		81.5	41.8	80.7	38.1	37.2	19.3					

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 27 FE8 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	3	3	3	3	3	4	4	S4	4	4	4	3
HMIN	263	254	240	217	217	256	254	110	109	109	108	108
SCAT	44.7	38.4	37.4	30.7	82.2	49.9	59.1	34.5	46.2	39.2	41.8	46.0
HMAXF	366	340	316	274	334	363	341	240	269	269	290	288
SHMAX	168	151	156	136	145	82	56	160	447	602	984	1060
KM												
370	270					118						
360	269					118						
350	261	284				116	81.9					
340	246	284			162	112	81.9					
330	226	279			162	106	81.2					
320	197	264	326		161	96.1	79.3					
310	160	240	324		159	84.1	76.3					
300	123	203	312		155	71.0	72.2				1298	
290	83.8	160	289		151	56.2	66.4				1298	1347
280	53.3	116	250	369	145	42.0	57.9				1279	1338
270	25.4	67.9	192	368	138	28.6	46.6		585	831	1223	1297
260		29.5	122	349	127	14.9	26.7		580	819	1129	1221
250			50.2	312	111			245	561	776	996	1120
240			3.1	238	88.0			245	526	715	832	975
230				103	57.0			240	482	623	662	800
220				25.5	21.6			224	415	518	523	630
210								199	343	422	423	493
200								169	276	344	353	398
190								138	222	286	307	340
180								112	178	241	274	302
170								90.8	144	204	244	272
160								75.2	120	172	216	244
150								63.7	104	146	190	216
140								56.0	94.4	128	164	189
130								52.1	90.2	119	147	168
120								38.0	77.7	114	139	156
110								19.7	35.1	38.1	80.5	82.9

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 27 FE8 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	3	3	A3	3	A3	A1	A1	1	A0	0	0	0
HMIN	109	108	107	107				201	199	204	273	266
SCAT	50.6	45.7	58.3	43.0				38.4	33.7	52.4	40.0	41.0
HMAXF	301	303	319	302				293	274	310	379	370
SHMAX	1203	1251	1470	1201				486	256	168	150	190
KM												
380											247	311
370											244	311
360											233	306
350											214	292
340											191	268
330											162	240
320			1561							236	131	206
310	1360	1491	1552	1561						236	96.0	165
300	1359	1490	1521	1560				936		234	65.8	118
290	1342	1463	1466	1532				935		227	41.8	75.0
280	1299	1400	1387	1461				911	567	216	22.8	42.8
270	1224	1296	1288	1349				856	564	201		18.4
260	1132	1175	1154	1202				766	541	183		
250	1015	1026	982	1025				639	492	160		
240	873	866	812	828				473	417	133		
230	729	707	662	651				294	312	103		
220	601	572	536	506				150	185	67.3		
210	487	464	443	408				54.9	73.0	32.1		
200	407	386	379	342					12.4			
190	352	337	332	297								
180	313	304	298	264								
170	285	279	268	233								
160	259	256	243	203								
150	232	231	215	174								
140	204	202	184	148								
130	180	179	163	137								
120	167	168	153	132								
110	41.8	80.9	92.8	87.1								

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 28 FE8 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Q,KP	0	S0	F2	F2	F2	F1	F1	S1	A1	A1	A1	1
HMIN	241	222	252				207	110	109		106	106
SCAT	29.0	27.4	28.0				36.0	33.5	32.8		44.1	48.7
HMAXF	321	284	318				297	244	242		274	287
SHMAX	130	123	126				102	191	344		688	955
KM												
330	297											
320	297		326									
310	287		319									
300	259		291				193					
290	215	342	240				191					1131
280	163	340	171				182				831	1125
270	110	319	92.0				165				829	1097
260	61.0	275	37.5				144				811	1044
250	31.0	200					116	311	567		766	966
240		94.1					82.4	310	566		710	870
230		37.7					54.2	298	549		635	755
220							33.5	270	504		546	624
210							15.6	235	436		463	506
200								190	351		394	409
190								148	274		339	346
180								114	215		297	305
170								88.2	172		261	274
160								70.2	143		227	244
150								58.5	122		195	211
140								51.2	105		166	180
130								47.5	98.6		146	161
120								37.4	74.7		138	152
110								19.7	24.5		67.6	69.6

ELECTRON DENSITY

RAMEY AF8, PUERTO RICO 60 W 28 FE8 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
Q,KP	1	1	A0	0	0	0	A0	0	0	0	S0	S0
HMIN	107	107	109	104	108	108		202	199	208	268	260
SCAT	39.8	38.4	46.0	44.3	40.2	39.6		46.4	47.4	53.2	40.3	38.1
HMAXF	280	288	298	294	277	270		290	300	339	359	346
SHMAX	926	993	1113	1120	974	737		330	223	209	182	174
KM												
360											329	
350											325	337
340										270	310	335
330										268	287	323
320										262	255	298
310									358	251	215	263
300			1411	1477					358	234	153	217
290	1257	1281	1401	1474				562	353	214	92.0	150
280	1257	1267	1358	1441	1491			556	341	191	51.2	86.1
270	1236	1211	1282	1370	1479	1240		537	320	165	16.5	40.2
260	1170	1107	1172	1259	1423	1222		505	293	136		3.1
250	1074	986	1021	1113	1318	1164		458	252	105		
240	943	849	831	933	1166	1070		391	199	74.6		
230	781	706	645	736	933	908		309	140	49.9		
220	613	572	507	552	682	682		213	82.3	30.6		
210	481	461	404	422	492	463		78.6	41.8	12.4		
200	386	388	341	344	367	300			12.4			
190	329	341	302	298	295	218						
180	294	310	275	267	250	173						
170	267	285	251	241	218	138						
160	238	259	225	215	190	107						
150	204	230	195	187	163	91.2						
140	178	194	170	161	140	83.0						
130	162	172	156	144	127	78.2						
120	153	161	150	137	119	75.8						
110	100	56.1	41.8	77.4	58.5	37.6						

AVERAGE ELECTRON DENSITY — KP BELOW 4.5

RAMEY AFB, PUERTO RICO — 60 W — FEB 1962

TIME	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
COUNT	25	25	26	24	26	26	25	16	25	22	22	20
KP	1.8	1.8	1.7	1.5	1.6	1.8	1.9	2.2	1.8	1.9	2.0	1.8
HMIN	236	236	228	216	209	224	221	110	109	108	108	108
RATIO	7.0	7.5	8.0	8.8	8.1	6.8	6.3	5.7	5.8	5.3	5.1	5.1
SCAT	35.2	33.6	30.9	30.3	36.6	37.7	39.2	33.9	34.3	37.2	37.8	38.5
NMAX	213	239	239	250	187	148	144	262	494	634	846	885
HMAXF	313	307	294	275	272	301	306	249	242	248	260	256
SHMAX	100	104	97	96	80	76	78	157	298	433	600	622
SHINF	702	778	771	802	606	492	483	895	1692	2222	2987	3119
KM												
950	14.6	15.6	14.9	14.3	10.4	9.7	9.5	12.9	23.7	32.0	45.2	46.3
900	18.8	20.0	19.2	18.4	13.4	12.5	12.2	16.6	30.5	41.1	58.0	59.4
850	24.1	25.7	24.6	23.6	17.2	16.0	15.7	21.3	39.1	52.7	74.5	76.2
800	30.8	32.9	31.5	30.2	22.0	20.5	20.1	27.4	50.2	67.6	95.5	97.8
750	39.5	42.1	40.4	38.8	28.2	26.2	25.7	35.1	64.4	86.7	122	125
700	50.5	53.9	51.7	49.6	36.2	33.5	32.9	45.0	82.5	111	157	161
650	64.4	68.7	65.9	63.4	46.2	42.8	41.9	57.5	106	142	201	205
600	81.7	87.3	83.8	80.7	58.9	54.3	53.3	73.4	135	181	256	262
550	103	110	106	102	74.6	68.5	67.2	93.4	171	230	325	333
500	128	137	132	128	93.8	85.4	83.1	118	217	290	409	419
450	156	168	163	159	116	104	102	148	272	362	509	522
440	161	174	169	166	121	108	106	154	284	378	530	545
430	167	181	175	172	126	112	110	161	296	394	552	568
420	172	187	182	179	131	116	114	167	309	410	575	591
410	178	193	188	186	136	120	118	174	321	427	598	614
400	183	199	194	192	141	124	121	181	335	443	620	638
390	188	205	201	199	146	127	125	188	348	460	643	662
380	193	211	206	205	151	131	128	196	361	477	666	686
370	197	216	212	212	156	134	131	203	375	494	688	710
360	201	221	217	218	160	137	134	210	388	511	710	733
350	204	225	222	224	165	139	137	217	401	527	732	755
340	205	228	226	229	169	141	139	224	414	542	752	777
330	205	229	229	234	173	142	140	230	427	557	771	797
320	202	228	231	238	176	142	140	236	439	571	788	816
310	195	224	231	241	179	140	139	242	450	584	804	834
300	185	216	226	242	181	136	136	247	461	595	817	848
290	170	202	216	240	182	129	131	252	470	604	827	861
280	151	184	200	235	182	118	121	256	478	611	834	869
270	126	162	176	225	178	104	107	259	485	616	831	870
260	100	136	146	208	170	89.2	90.4	260	489	617	817	862
250	69.3	105	113	182	156	72.9	70.7	260	490	613	788	843
240	41.5	67.5	79.3	150	134	55.7	49.5	255	487	601	740	807
230	22.4	39.6	49.6	105	107	40.0	32.0	240	471	572	669	743
220	9.4	12.9	25.8	56.4	72.5	26.6	16.8	213	436	523	577	651
210	4.3	2.3	7.9	15.8	39.0	14.4	7.6	178	379	454	474	540
200	1.0	.1	1.0	1.0	7.2	2.4	2.0	140	305	376	378	430
190					1.1			106	235	303	309	344
180								79.2	179	247	266	291
170								61.4	140	207	237	260
160								49.8	113	176	210	236
150								42.7	95.9	149	184	210
140								38.6	85.8	129	159	181
130								35.3	77.3	115	140	157
120								28.1	65.4	103	129	144
110								13.3	28.7	55.4	78.3	69.5

AVERAGE ELECTRON DENSITY — KP BELOW 4.5

RAMEY AFB, PUERTO RICO — 60 W — FEB 1962

TIME	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
COUNT	19	18	22	18	22	16	11	27	26	25	25	25
KP	1.6	1.8	2.1	2.2	2.1	2.1	2.2	1.8	1.8	1.7	1.8	1.8
HMIN	107	108	108	108	108	108	110	204	202	217	243	234
RATIO	5.1	5.0	4.7	5.1	5.0	5.1	6.1	8.0	7.1	5.6	6.7	6.8
SCAT	36.8	37.3	42.0	38.5	40.3	42.7	35.5	33.1	37.5	44.6	35.8	36.3
NMAX	901	943	951	952	760	800	815	607	330	217	248	237
HMAXF	256	261	271	263	260	267	266	270	276	320	325	315
SHMAX	638	682	744	679	557	572	465	262	159	137	124	118
SHINF	3181	3342	3425	3363	2702	2828	2764	1975	1091	749	823	787
KM												
950	47.7	51.2	54.9	53.0	41.3	45.2	45.1	34.2	18.9	15.6	18.4	16.6
900	61.2	65.7	70.4	68.0	53.0	58.1	57.9	43.9	24.3	20.0	23.6	21.3
850	78.6	84.3	90.4	87.2	68.1	74.5	74.3	56.4	31.2	25.6	30.2	27.3
800	101	108	116	112	87.3	95.6	95.3	72.3	40.0	32.8	38.7	34.9
750	129	139	149	143	112	123	122	92.7	51.3	42.0	49.6	44.7
700	166	178	190	184	143	157	156	119	65.6	53.7	63.3	57.2
650	212	227	243	235	183	200	200	152	83.9	68.4	80.6	72.9
600	270	289	309	299	234	255	255	193	107	86.8	102	92.4
550	343	367	392	379	296	323	323	245	135	109	128	116
500	432	462	492	477	373	406	407	308	170	135	158	144
450	537	574	609	591	463	504	505	382	210	164	191	175
440	560	598	633	616	483	524	526	398	219	170	198	181
430	583	623	659	641	503	545	547	414	228	176	204	187
420	607	648	684	666	523	567	569	430	237	182	210	193
410	631	673	710	692	543	588	591	446	246	187	216	199
400	655	699	735	717	564	610	613	463	254	192	222	205
390	680	724	760	742	584	631	635	479	263	197	227	210
380	704	749	785	768	604	652	657	495	272	202	232	215
370	728	774	809	792	624	672	678	511	280	206	236	219
360	751	798	832	816	644	692	699	526	288	209	239	223
350	774	821	854	838	662	711	719	541	296	212	240	225
340	795	843	874	860	680	728	738	554	303	214	239	225
330	815	863	892	879	696	744	755	567	309	213	234	223
320	834	882	908	897	711	758	770	578	315	211	225	218
310	851	898	920	912	724	770	784	587	319	205	210	209
300	865	912	929	924	735	779	795	594	322	195	187	195
290	876	921	931	930	742	782	803	599	323	179	159	177
280	882	923	922	927	745	779	805	597	321	160	129	155
270	881	914	901	910	739	768	795	583	315	137	100	132
260	868	893	864	880	723	745	770	557	300	112	73.3	107
250	841	856	807	831	694	707	728	507	277	86.4	48.7	84.4
240	795	798	731	762	652	653	658	425	241	62.8	28.6	63.1
230	726	716	642	671	592	578	559	319	190	42.0	15.1	43.0
220	631	614	545	569	517	488	432	193	128	25.7	6.2	25.7
210	522	507	452	470	435	396	305	78.5	66.6	10.7	.8	11.5
200	421	411	374	382	357	311	203	12.3	11.8	1.6		2.0
190	345	339	315	314	293	243	135	1.0	1.8			
180	296	294	278	270	246	195	95.7					
170	265	267	254	239	212	160	74.5					
160	241	245	231	212	185	133	62.2					
150	216	220	206	185	159	112	54.5					
140	188	190	180	159	136	96.3	49.9					
130	164	165	157	140	120	87.0	47.0					
120	150	151	143	130	111	81.7	40.9					
110	84.4	69.5	68.5	66.7	55.6	43.3	10.7					

TABLES OF IONOSPHERIC DATA

MARCH 1961 - AUGUST 1953

TABLE 1

FAIRBANKS, ALASKA (64.9N, 147.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 30	U 34	U 315	U 315	U 37	U 35	U 345	395	47	50	545	58	57	58	575	59	60	60	55	45	36	U 30	U 305	U 37
	CNT	7	5	8	10	11	11	10	20	24	25	24	25	28	28	30	28	29	28	27	27	19	17	8	5
	UQ	38	41	36	38	40	45	45	47	50	55	60	63	64	66	68	67	69	66	60	52	47	42	42	41
	LQ	29	26	30	29	32	30	33	36	43	46	47	48	50	50	50	54	55	54	51	40	33	27	24	30
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 290		U 280	U 270	U 270	U 280	U 300	315	305	300	295	3025	305	305	310	315	320	325	325	315	320	U 310	U 305	
	CNT	6	3	8	9	10	11	9	20	23	25	24	24	28	26	29	28	29	28	27	27	18	17	6	4
	UQ	295		295	280	275	285	300	320	320	325	320	320	320	315	320	325	330	340	335	325	325	320	310	
	LQ	285		270	265	270	275	290	280	295	280	280	290	290	295	300	310	310	310	315	300	310	290	300	
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	39	395	37	38	36	30																	40	44
	CNT	25	28	21	23	23	25	19	24	25	25	24	25	28	28	30	28	29	27	29	28	25	28	24	23

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MARCH, 1961

TABLE 2

AOAK, ALASKA (51.9N, 176.6W)

TIME 180.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	32	32	31	31	30	31	38	53	58	67	71	83	85	87	83	77	75	70	61	52	40	36	345	335
	CNT	27	27	27	27	25	26	30	31	31	31	31	31	31	31	31	30	31	31	31	31	30	28	28	28
	UQ	36	37	37	36	36	36	44	58	66	76	84	91	92	93	89	84	81	76	70	65	58	46	38	38
	LQ	29	29	28	28	26	26	35	45	53	60	63	69	70	70	73	72	70	65	57	45	35	30	28	28
h'F2	MED									U 410	301	2955	267	274	263	U 2565	U 243								
	CNT							1	4	7	13	10	21	12	15	8	5								
	UQ									433	354	350	292	288	270	262	251								
	LQ									245	255	265	258	263	250	252	241								
h'F	MED	285	2865	290	283	273	278	245	221	215	204	208	200	202	205	211	2185	225	223	217	217	224	2405	255	275
	CNT	29	30	31	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	31	30	30	31	31
	UQ	295	298	300	299	296	294	261	234	220	212	215	207	209	213	216	225	229	229	224	223	230	260	275	300
	LQ	257	272	260	268	265	249	232	215	206	200	200	195	193	200	207	214	220	215	210	208	215	227	234	265
(M3000)F2	MED	285	285	280	280	285	285	320	335	330	330	320	320	320	325	330	335	340	340	335	330	325	305	2925	280
	CNT	27	26	25	24	23	21	30	31	31	31	31	31	31	31	31	30	31	31	31	31	29	28	26	28
	UQ	290	290	300	290	295	310	330	340	345	340	330	330	330	340	340	340	350	350	345	340	330	320	300	290
	LQ	270	275	270	270	270	270	300	305	310	310	310	310	310	320	320	330	330	330	330	315	315	295	280	275
foF1	MED							1	3	4	400	430	440	435											
	CNT									4	5	5	6	6	1	1	1								
foE	MED							170	210	255	270	295	305	310	305	290	270	240	200	170					
	CNT							13	23	22	25	24	24	28	31	30	27	31	27	5				1	
h'E	MED							U 123	110	105	103	103	102	102	103	104	E 108	U 1105	U 119	134					
	CNT							17	31	30	31	31	31	31	31	31	30	30	27	5				1	
foEs	MED									26	30	30	31	28			17	17	20	14					
	CNT	30	30	31	31	31	31	30	31	31	30	31	31	31	31	31	30	31	31	31	31	30	30	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MARCH, 1961

TABLE 3

BYRD STATION (80.0S, 120.0W)

TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 47	U 455	U 44	U 42	U 40	39	43	44	505	D 52	57	61	62	64	63	63	57	U 505	U 51	U 53	U 50	U 51	U 515	U 535
	CNT	14	20	19	21	21	19	19	24	24	26	29	28	29	29	29	23	21	22	19	9	16	9	12	8
	UQ	50	50	47	46	44	41	47	50	55	56	61	67	70	74	69	74	70	61	56	60	58	58	56	60
	LQ	36	40	38	38	37	36	40	42	44	47	48	52	56	59	54	51	48	45	47	50	46	47	44	41
h'F2	MED										U 2675	260		U 270	275	300	310	U 310	U 350	U 3475					
	CNT	1	1							4	8	11		15	19	13	11	7	6	6	1	1	1		
	UQ										310	280		295	325	340	350	370	400	410					
	LQ										250	250		245	255	250	255	270	285	295					
h'F	MED	U 3225	E 330	U 350	U 300	275	255	250	2425	245	2475	235	2325	2325	240	240	245	255	265	285	280	280	E 280	280	300
	CNT	18	19	17	21	21	19	19	24	24	24	25	24	28	28	29	25	25	21	19	16	19	16	19	12
	UQ	355	400	380	340	320	290	280	255	260	260	240	245	240	250	260	265	285	290	310	300	300	300	335	335
	LQ	300	295	280	270	250	245	235	240	240	240	230	220	225	230	230	240	245	250	265	270	275	260	270	275
(M3000)F2	MED	U 275	U 280	U 290	U 2925	3125	320	325	335	325	335	330	335	3275	320	3175	3075	3075	U 295	U 300	U 300	U 305		U 290	U 2725
	CNT	8	9	11	16	16	18	17	23	23	23	27	28	28	26	26	22	18	19	11	7	8	4	6	6
	UQ	280	290	295	300	325	330	340	340	340	340	340	345	340	330	330	320	315	320	310	305	320		295	280
	LQ	265	270	270	280	300	310	305	320	315	315	305	310	310	305	290	300	290	290	270	295	290		260	265
foF1	MED																								
	CNT												1		2	3	1	1		2					
foE	MED						U 185	U 190	U 210	U 220	U 230	230	U 230	U 225	U 230	U 210	U 210	U 2125	U 210	O 200					
	CNT	2	2		3	6	6	5	7	7	12	11	15	18	19	16	16	14	15	5	3	2	2		
h'E	MED					119	125	115	114	114	U 113	115	113	111	115	117	115	115	119	113	117				
	CNT	2	3	1	4	7	9	7	10	10	12	16	15	18	24	21	19	18	17	7	7	3	3	1	
foEs	MED	38	405	40	38	33														38	45	43	43	42	45
	CNT	25	28	25	25	26	21	20	23	22	25	29	29	31	31	31	30	30	31	31	29	28	27	27	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MARCH, 1961

TABLE 4

GODHAVN, GREENLAND (69.3N, 53.5W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 30	U 295	U 30	295	U 29	U 29	U 34	30	U 37	U 38	52	57	U 55	U 58	U 57	50	U 49	U 485	U 425	45	U 405	35	U 415	U 325
	CNT	16	18	16	12	7	9	5	4	9	10	13	13	13	15	14	18	16	18	18	15	14	13	10	6
	UQ	36	32	32	32	35	32	36	32	43	40	55	62	60	60	58	57	56	53	50	60	43	40	50	45
	LQ	28	25	24	23	27	27	29	29	32	33	42	51	46	52	45	47	46	42	40	40	37	30	32	30
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	305	U 300	U 2975								U 330	U 3025	U 310	U 310	U 3125	U 310		U 310	U 310	U 300	U 300	U 2925	U 305	
	CNT	10	8	6	4	3	4			2	4	7	6	6	9	6	8	3	8	5	8	9	6	6	3
	UQ	325	300	300								330	315	325	320	340	330		320	320	305	310	305	310	
	LQ	295	300	280								315	300	300	290	310	305		300	300	290	285	285	300	
foF1	MED											1													
	CNT																								
foE	MED								1							U 240									
	CNT						1		1		1	2	2	3	2	6	2	1	1						
h'E	MED													E 125	E 125	U 125	U 125	129							
	CNT						1		1		2	4	2	7	5	9	6	5	2						
foEs	MED							235											385				30	31	
	CNT	25	24	25	25	23	23	20	25	25	25	20	22	23	23	24	26	24	26	24	23	26	25	23	20

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS.

FEBRUARY, 1961

TABLE 5

FAIRBANKS, ALASKA (64.9N, 147.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 30	U 31	U 30	U 47	U 425	U 50	U 425	U 31	43	53	60	60	63	65	69	655	67	59	49	U 34	U 295	U 30	U 40	U 26
	CNT	1	2	1	1	4	3	4	10	15	17	18	19	23	23	23	24	22	25	20	18	6	5	1	4
	UQ					44	52	52	39	47	55	67	70	73	80	80	73	72	70	54	39	30	32		42
	LQ					40	48	34	29	37	46	49	52	49	52	54	55	55	50	44	30	27	26		25
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED								U 310	325	330	325	3275	330	320	335	325	335	330	335	U 320	U 315	U 295		
	CNT	1	2	1		4	3	4	9	15	17	16	18	19	23	23	24	22	25	19	15	6	5	1	1
	UQ								320	330	340	335	335	340	340	345	335	340	340	345	330	325	340		
	LQ								300	315	320	315	315	315	315	320	310	330	320	325	310	310	285		
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	45	41	455	485	52	42	34															32	41	47
	CNT	20	17	16	12	12	11	14	13	15	17	18	19	23	23	23	24	24	26	22	21	8	15	13	18

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

FEBRUARY, 1961

TABLE 6

ANCHORAGE, ALASKA (61.2N, 149.9W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 35		U 35	U 34	U 425	U 37	U 345	U 34	U 42	53	66	62	69	69	72	70	U 635	585	U 51	37	U 29	275	U 21	U 38
	CNT	1		4	4	4	3	4	7	15	18	13	17	19	21	21	24	20	26	23	14	10	4	1	2
	UQ			44	41	48	37	48	37	48	57	70	75	80	82	81	76	76	72	56	42	35	32		
	LQ			28	31	38	34	32	26	38	48	55	52	56	56	59	60	53	53	42	33	23	26		
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED								U 305	U 310	325	320	315	310	315	320	320	U 325	330	320	310	U 300			
	CNT	1		2	4	4	2	3	7	14	16	13	16	19	21	21	23	17	25	22	14	9	4	1	2
	UQ								310	330	335	330	325	325	325	325	330	330	335	330	330	315			
	LQ								290	305	310	300	310	300	305	305	315	310	315	315	300	290			
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED	U 435	U 40	U 285																				U 29	U 30
	CNT	6	6	8	8	7	7	7	9	15	18	14	18	20	21	21	23	23	26	25	16	12	6	5	6

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

FEBRUARY, 1961

TABLE 7

ADAK, ALASKA (51.9N, 176.6W)

TIME 180.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	28	28	30	295	30	29	40	575	69	75	82	85	79	82	78	675	58	455	32	25	24	255	27
	CNT	27	23	26	24	26	25	25	27	28	28	28	28	27	28	28	28	28	28	28	28	28	24	24	23
	UQ	31	31	31	32	31	32	33	44	64	76	80	86	89	85	87	80	72	62	50	40	30	27	28	30
	LQ	25	26	26	28	27	26	24	35	46	56	63	66	72	71	72	70	61	54	41	28	22	20	24	23
h'F2	MED											U 277	U 2685	U 250	U 248	U 2425									
	CNT									1	4	6	8	10	6	6	2								
	UQ											295	292	255	256	250									
	LQ											270	248	245	240	240									
h'F	MED	2825	2865	2895	2835	2745	2695	253	2235	2205	215	211	211	2165	211	220	220	215	2125	2105	217	2315	273	270	2815
	CNT	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	27	28	28
	UQ	301	302	302	308	295	288	294	250	235	222	218	223	220	216	228	228	220	216	214	230	247	289	295	302
	LQ	263	265	268	270	254	252	228	214	210	208	206	206	204	206	215	214	210	208	205	211	220	239	254	266
(M3000)F2	MED	290	290	280	290	285	295	310	330	3475	350	335	335	340	340	340	345	3525	350	340	340	325	310	295	2875
	CNT	26	20	21	21	25	23	21	27	26	28	28	28	27	28	28	28	28	28	27	25	25	23	23	22
	UQ	300	295	295	295	300	305	330	345	350	355	350	340	350	345	345	355	360	350	350	355	340	325	310	300
	LQ	280	280	280	280	280	280	285	300	330	335	325	320	330	330	335	340	350	340	330	330	310	290	285	275
foF1	MED																								
	CNT									1	3	2	1	1	1										
foE	MED								165	200	240	265	280	290	280	265	240	210	160						
	CNT								7	23	22	27	28	28	28	27	27	21	11						
h'E	MED								111	115	1095	109	110	110	1115	113	115	120	130						
	CNT								16	25	26	28	28	28	28	28	28	25	11						
foEs	MED																	21							
	CNT	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

FEBRUARY, 1961

TABLE 8

BOULDER, COLORADO (40.0N, 105.3W)

TIME 105.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	28	29	30	30	30	U 29	295	43	61	695	77	825	90	90	90	85	80	73	65	515	38	30	27	27
	CNT	26	22	21	19	17	17	18	23	25	26	25	24	25	26	24	25	26	27	27	26	25	25	25	26
	UQ	30	34	33	32	32	32	32	49	62	75	85	90	96	101	94	92	87	81	70	57	42	35	29	29
	LQ	26	26	28	28	28	28	25	42	59	65	70	77	85	85	84	80	75	68	61	47	31	26	24	25
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	2925	300	300	300	310	310	3025	335	345	3425	330	3125	315	3275	330	330	3375	340	335	3375	330	325	310	300
	CNT	24	18	19	19	14	15	14	21	25	26	25	24	25	26	24	25	24	27	27	26	24	25	24	23
	UQ	300	305	305	310	320	310	320	340	355	350	340	340	330	340	330	335	340	350	345	350	340	335	320	310
	LQ	290	290	300	300	300	295	300	320	330	320	315	310	300	320	320	320	325	330	330	325	320	310	300	300
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED								25			30						25							
	CNT	26	26	26	26	26	26	26	26	26	26	25	24	25	26	24	25	24	27	27	26	25	25	25	26

SWEEP 0.25 MC TO 20.0 MC IN 27 SECONDS.

FEBRUARY, 1961

TABLE 9

CONCEPCION, CHILE (36.6S, 73.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	72	70	68	61	565	575	64	72	765	855	875	935	108	1105	115	120	1115	98	925	865	73	74	765	0 76
	CNT	23	23	24	25	28	26	28	27	28	26	28	28	27	28	27	26	28	27	28	28	28	27	26	22
	UQ	80	80	72	66	61	65	70	80	86	88	96	106	115	121	126	126	120	115	104	98	85	81	80	80
	LQ	66	63	63	58	53	50	60	63	71	79	80	89	96	98	110	108	100	88	86	72	68	67	68	67
h'F2	MEQ									U 250	280	2875	310	310	300	300	280	275	260	U 260					
	CNT								2	5	13	12	22	25	25	26	25	25	21	8					
	UQ									305	300	315	335	325	320	305	290	280	275	270					
	LQ									250	260	270	290	295	290	290	280	270	250	250					
h'F	MEQ	300	2925	280	250	260	275	230	230	U 225	E 220	U 210	U 210	U 210	E 220	220	E 2275	U 230	E 240	250	2575	2825	305	320	310
	CNT	28	28	28	27	28	28	28	27	27	23	24	24	25	25	21	24	25	22	28	28	28	27	28	27
	UQ	315	310	290	275	290	295	240	235	230	230	230	240	230	235	230	245	235	245	260	265	300	325	330	335
	LQ	280	270	250	245	240	240	230	220	220	210	210	190	200	200	210	210	220	230	240	240	270	295	290	290
(M3000)F2	MEQ	280	280	290	295	290	290	330	330	320	3075	300	300	300	3025	310	3175	320	320	315	310	2725	270	270	270
	CNT	23	23	23	23	25	25	28	27	28	26	27	27	26	28	26	26	28	27	28	27	28	25	24	18
	UQ	290	295	305	320	320	310	340	335	330	330	310	310	310	310	315	325	325	330	330	320	280	280	280	280
	LQ	270	270	275	280	270	270	300	310	300	285	290	285	285	290	300	310	315	310	305	300	270	260	260	260
foF1	MEQ													490	U 500										
	CNT												3	10	5	1									
foE	MEQ							195	260	300	330	350	U 360	U 365	360	350	340	310	275	210					
	CNT						3	17	14	19	16	13	10	9	16	19	15	18	14	10					
h'E	MEQ					E		119	109	109	109	109	109	109	109	109	109	111	113	119					
	CNT					9		25	22	25	23	25	25	27	28	27	24	26	23	16					
foEs	MEQ	42	425	305	24	23	25	27	315	355	39	41	425	41	42	40	405	37	32	265	305	295	28	325	275
	CNT	28	28	28	28	28	28	28	28	28	27	28	28	28	28	27	26	28	27	28	28	28	28	28	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

FEBRUARY, 1961

TABLE 10

BYRD STATION (80.0S, 120.0W)

TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 46	47	45	45	45	44	445	445	475	47	52	545	57	58	58	60	55	56	U 54	U 55	U 52	U 53	U 48	U 47
	CNT	17	14	18	15	16	17	20	22	24	26	26	28	27	27	27	25	25	23	25	19	21	15	14	15
	UQ	54	52	52	51	50	48	49	52	55	55	56	60	62	63	66	68	66	66	58	62	60	59	57	55
	LQ	38	40	43	43	42	41	40	42	42	45	50	50	52	51	49	50	50	50	46	47	47	44	45	39
h'F2	MEQ	U 355		E 405				G	U 360	U 3075	U 350	350	330	325	3675	3425	330	3775	380	365	385	U 375			
	CNT	6	3	5	2	3	3	6	6	8	11	12	16	24	20	22	21	18	17	12	11	6	4	4	3
	UQ	500		495							440	390	355	385	390	410	380	435	470	420	420	410			
	LQ	300		335				320	315	270	295	310	310	300	320	300	300	310	330	330	320	330			
h'F	MEQ	310	U 300	U 3125	270	E 265	260	250	2375	240	235	230	220	230	225	225	2375	265	270	285	275	270	U 2925	280	285
	CNT	17	17	14	12	14	15	20	20	23	24	25	27	27	26	25	26	26	21	18	18	22	18	19	20
	UQ	330	345	340	305	285	285	290	260	255	260	250	235	250	240	250	270	315	300	300	285	275	340	320	315
	LQ	300	280	265	245	235	230	230	220	220	220	220	205	210	210	220	225	235	230	250	250	245	260	260	270
(M3000)F2	MEQ	U 285	U 2825	280	300	305	315	315	320	3175	315	310	300	295	295	290	290	280	285	U 2925	2675	290	U 280	U 285	U 285
	CNT	12	10	11	14	14	16	17	20	22	25	24	25	26	24	26	23	22	20	16	10	12	7	9	9
	UQ	290	295	295	310	315	330	330	330	335	330	330	320	325	315	305	305	300	295	305	300	305	310	310	295
	LQ	275	270	270	285	295	300	270	295	295	280	290	290	285	270	270	275	270	260	270	260	275	280	265	265
foF1	MEQ									350		390	395	395	395	400	380	375	370	360	360				
	CNT	1				1	2	4	2	5	4	9	8	10	14	12	15	10	10	6	6	4	1		
foE	MED					U 230	220	2275	U 245	U 250	U 2525	U 260	U 270	280	270	260	260	250	250	0 245	0 260	U 220		U 2225	
	CNT	2	2	4	2	7	9	10	16	16	16	19	26	23	23	24	25	19	16	10	16	12	4	8	4
h'E	MEQ		111			107	106	105	107	105	108	109	107	105	105	103	105	105	107	U 109	109	107	U 115	111	107
	CNT	3	5	4	4	7	10	10	17	16	16	19	26	25	25	25	27	19	17	13	19	17	9	10	7
foEs	MEQ	36	42	365	445	40													32	36	335	37	54	55	375
	CNT	24	27	26	24	22	21	22	23	25	27	26	28	28	28	27	28	28	27	27	28	28	27	27	26

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

FEBRUARY, 1961

TABLE 11

FAIRBANKS, ALASKA (64.9N, 147.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 345	U 46	U 35	U 365	U 40	U 395	U 38	U 36	U 33	41	54	63	65	71	65	65	56	425	35	285	U 29	U 27	U 325	U 28
	CNT	2	3	5	6	10	10	13	8	10	22	22	24	29	27	29	29	27	26	20	12	5	5	4	6
	UQ		47	52	38	42	43	40	38	43	43	58	74	77	84	74	68	63	52	44	32	42	34	36	30
	LQ		46	29	35	38	34	35	31	30	38	46	55	52	56	57	52	49	40	30	23	24	22	27	27
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UO																								
	LQ																								
(M3000)F2	MEQ					U 280	U 275	U 280	U 300	U 3025	320	335	3375	335	3375	330	335	330	330	325	310	U 320			
	CNT	2	2	4	4	10	8	12	8	10	20	21	24	27	26	27	28	27	25	20	10	5	3	1	2
	UQ					295	290	290	310	315	325	340	340	340	350	345	340	340	340	345	325	320			
	LO					260	270	280	280	290	310	330	330	325	330	325	330	315	315	315	295	310			
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ	45	44	45	44	445	40	32														U 33	34	32	36
	CNT	26	24	28	26	26	22	23	14	17	23	23	24	29	28	29	28	27	28	25	16	8	14	22	24

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

JANUARY, 1961

TABLE 12

ANCHORAGE, ALASKA (61.2N, 149.9W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 36	0 30	U 32	U 36	Q 325	U 34	U 355	U 29	U 31	44	575	665	71	765	70	65	57	48	36	27	U 28	U 235	U 31	U 36
	CNT	3	3	3	9	6	10	6	7	13	27	28	28	28	28	26	28	26	28	25	11	6	6	4	3
	UQ	38	32	33	39	40	37	38	32	34	50	64	73	81	86	78	72	64	56	43	36	32	26	34	37
	LQ	29	30	29	30	29	32	33	25	27	40	48	54	57	62	61	56	53	45	33	25	25	20	27	31
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ				U 265	U 2525	U 270	U 270	U 280	295	315	3225	320	315	3225	330	325	315	3225	300		U 2975	U 315		
	CNT	2	2	3	9	6	9	5	7	12	27	28	28	28	28	26	28	26	27	24	11	6	5	4	3
	UQ				275	265	270	280	290	305	330	330	330	325	330	340	330	325	330	330	335	310	330		
	LQ				260	245	260	260	280	290	310	310	315	310	320	325	315	310	305	310	295	290	310		
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ	9	12	12	12	11	10	9	8	17	27	28	28	28	28	26	28	27	28	26	11	7	9	8	4

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

JANUARY, 1961

TABLE 13

ADAK, ALASKA (51.9N, 176.6W) TIME 180.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	26	25	25	26	28	28	25	27	52	71	77	82	82	81	76	68	60	50	34	25	22	23	25	26
	CNT	26	27	26	26	23	25	24	23	31	31	31	31	31	31	31	31	31	31	31	30	29	29	27	28
	UQ	27	27	28	28	30	31	28	31	58	80	86	87	88	93	86	74	65	57	40	30	24	24	26	28
	LQ	25	23	23	25	26	26	23	25	48	60	70	73	75	72	71	63	54	44	30	20	20	20	21	24
h'F2	MED																								
	CNT											1	1	1	2	1									
	UQ																								
	LQ																								
h'F	MED	270	281	306	297	285	263	240	2405	225	216	220	219	215	224	221	214	211	206	2165	225	253	250	270	273
	CNT	29	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	30	31	31	29	31	31
	UQ	290	306	320	310	302	285	265	275	230	228	230	223	222	229	225	220	218	211	230	238	270	267	308	290
	LQ	250	260	275	279	265	244	220	215	214	210	210	210	210	215	217	209	206	200	210	217	239	240	253	250
(M3000)F2	MED	300	285	280	280	280	290	3075	2975	340	350	350	345	345	345	350	355	340	350	340	3425	320	315	295	300
	CNT	24	26	23	24	21	24	24	20	31	31	31	31	31	31	31	31	31	31	30	30	29	25	26	26
	UQ	310	300	290	290	295	310	330	300	350	360	360	360	355	355	360	360	350	360	350	355	330	320	310	310
	LQ	285	275	270	270	270	280	290	280	335	340	335	335	330	335	340	340	330	335	330	320	310	300	280	285
foF1	MED																								
	CNT											11	11												
foE	MED									185	220	240	260	270	260	240	205	175							
	CNT									8	19	23	25	20	21	21	21	9							
h'E	MED										E	E	U	E			U	U							
	CNT									105	119	1185	117	119	117	1165	120	119							
										6	19	24	25	24	23	22	23	9							
foEs	MED						11	11	14	285									13	12					
	CNT	31	31	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JANUARY, 1961

TABLE 14

BOULDER, COLORADO (40.0N, 105.3W) TIME 105.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	305	32	34	33	34	32	325	37	57	69	845	98	93	915	91	915	80	69	575	43	29	26	26	27
	CNT	22	20	20	18	21	17	18	21	27	24	18	19	23	26	24	26	23	24	28	28	26	25	24	21
	UQ	34	38	36	35	35	35	35	41	68	80	99	104	100	98	99	97	83	74	63	48	32	29	28	31
	LQ	27	30	30	32	32	30	30	33	53	63	73	81	88	86	85	82	70	56	52	36	27	24	25	26
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	300	3075	300	300	3075	300	305	320	360	345	335	335	330	325	330	335	345	340	340	350	340	3075	310	3025
	CNT	16	16	17	17	18	16	17	17	27	24	17	19	23	26	23	26	23	24	27	28	22	22	22	18
	UQ	310	315	310	320	330	315	320	330	360	355	340	345	340	335	335	345	350	350	350	355	350	320	320	310
	LQ	300	300	290	290	290	280	300	310	350	335	330	325	325	320	325	330	340	330	330	340	320	300	300	295
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																	20							
	CNT	28	28	28	27	26	26	26	26	25	24	17	19	23	26	24	26	23	24	28	28	28	27	27	28

SWEEP 0.25 MC TO 20.0 MC IN 27 SECONDS. JANUARY, 1961

TABLE 15

CONCEPCION, CHILE (36.6S, 73.0W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	80	80	73	665	64	0 605	70	80	80	90	90	985	105	109	109	105	99	94	895	80	77	83	835	83
	CNT	28	27	28	28	25	26	28	29	29	29	29	28	28	29	28	29	29	29	28	27	26	25	28	26
	UQ	86	82	79	74	68	68	80	94	99	98	108	111	116	120	119	122	113	103	100	94	89	90	90	90
	LQ	70	68	64	61	56	56	64	70	74	79	83	90	92	98	97	91	90	85	79	72	66	72	71	74
h'F2	MED								U 280	300	320	330	340	330	325	3125	3025	E 2975	E 2975	290					
	CNT								5	15	19	19	27	27	29	28	26	28	22	11					
	UQ								345	355	350	370	370	350	340	330	320	320	300	300					
	LQ								270	280	305	305	320	320	310	300	295	280	270	285					
h'F	MED	300	280	265	280	280	260	240	E 235	E 225	E U 210	U 210	205	U 200	U 210	225	230	U 230	E 240	U 240	265	E 300	330	320	315
	CNT	29	29	29	29	28	29	29	27	26	27	26	20	23	24	22	25	25	24	23	27	27	29	29	29
	UQ	310	290	290	290	315	270	250	250	240	230	255	215	240	245	240	250	250	255	275	275	340	360	350	330
	LQ	280	260	240	255	260	250	230	220	210	200	200	200	180	190	200	215	220	230	230	250	280	320	300	290
(M3000)F2	MED	275	290	290	270	280	290	290	295	290	2825	270	2825	280	290	295	300	305	310	305	290	265	2575	2625	265
	CNT	27	25	27	27	24	25	28	29	28	28	29	28	27	29	28	29	29	29	28	25	25	22	24	25
	UQ	290	300	310	300	300	310	320	315	320	295	290	290	290	300	300	310	320	325	320	305	270	260	270	275
	LQ	265	280	280	270	270	270	270	250	270	265	260	270	275	280	290	290	290	295	295	280	250	250	255	260
foF1	MED								U 490	U 510	490	495	480												
	CNT								7	2	3	4	7	12	10	10	7								
foE	MED					E	160	250	U 290	U 330	U 350	U 360	U 380	U 380	U 380	U 370	U 350	330	U 300	240					
	CNT					7	12	16	12	13	16	9	10	11	13	15	19	17	8	8					
h'E	MED					E	U 131	113	109	109	109	109	109	109	109	109	109	109	U 111	119					
	CNT					7	25	29	29	29	29	29	27	25	27	27	28	29	29	22	1				
foEs	MED	30	35	33	25	26	25	30	37	43	48	46	46	435	44	43	42	43	42	32	37	46	40	32	31
	CNT	29	29	29	29	29	29	29	29	29	29	29	28	28	29	28	28	29	29	29	29	29	29	29	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JANUARY, 1961

TABLE 16

BYRD STATION (80.0S, 120.0W) TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 46	U 46	U 50	U 48	D 47	48	485	475	49	52	55	57	58	605	62	59	61	595	555	U 56	U 49	U 55	U 49	U 48
	CNT	13	20	19	19	19	22	20	26	27	25	27	27	27	26	25	25	24	24	22	21	18	15	19	15
	UQ	58	54	54	56	53	51	54	53	54	56	58	64	62	68	69	68	70	75	67	61	63	59	59	57
	LQ	43	41	44	45	44	44	44	45	47	50	51	52	54	55	56	56	56	55	52	46	46	45	45	44
h'F2	MED	U 340	U 425	370	E 405	E 3875	U 300		E 345	370	350	355	360	3525	3575	350	355	355	3375	3575	3725	4175	U 440	380	U 375
	CNT	7	11	11	8	6	7	4	10	10	17	19	17	22	22	22	22	19	20	20	16	12	9	11	8
	UQ	400	515	440	590	400	360		460	400	465	385	415	385	365	365	380	390	390	410	480	470	525	420	425
	LQ	325	375	330	330	320	300		300	315	325	320	320	320	320	320	330	315	320	330	345	345	340	335	330
h'F	MED	2725	E 2875	U 300	2525	240	235	240	230	230	225	215	225	215	215	220	225	240	265	2425	240	280	2425	2475	E 2575
	CNT	16	10	11	10	13	15	19	21	27	26	27	26	26	27	25	26	19	18	20	17	15	16	18	18
	UQ	295	300	315	305	280	250	255	250	240	235	225	240	245	230	240	235	285	280	260	270	355	270	275	300
	LQ	255	190	280	250	225	220	220	220	215	215	205	210	205	200	200	215	220	225	220	230	240	240	230	235
(M3000)F2	MED	U 2775	260	2825	2825	2925	300	310	300	2975	290	290	290	285	290	2825	280	280	2675	270	U 260	U 260	255	270	U 260
	CNT	6	10	12	14	14	15	16	22	22	23	26	26	24	23	22	19	16	18	17	11	12	5	14	7
	UQ	290	270	290	300	310	310	320	305	315	305	300	305	300	305	295	290	290	285	290	275	265	300	300	270
	LQ	270	255	260	275	280	285	280	265	285	265	270	280	270	265	260	275	260	250	260	225	250	235	265	250
foF1	MED								U 400	U 400	U 410	U 410	U 420	U 430	U 420	U 430	U 415	410	420	U 400	U 380	U 360	U 375		
	CNT	3	4	2	1	1	2	3	5	8	11	13	11	13	16	15	16	12	14	11	10	6	6	4	3
foE	MED	250			250	260		285	285	300	U 290	U 290	U 300	295	300	300	2925	290	U 280	U 275		280		U 270	U 230
	CNT	6		3	5	7	4	8	14	16	15	18	14	18	19	18	18	13	11	13	13	5	3	5	5
h'E	MED	E 115			103	103	102	104	104	103	103	104	104	101	102	103	101	101	101	103	103	109	107	107	105
	CNT	9	1	4	6	9	8	12	14	21	20	22	24	23	22	21	20	17	14	17	17	11	11	14	10
foEs	MED	425	45	46	43	40	41	33	285												0 31	37	38	33	46
	CNT	24	25	24	23	23	23	23	26	29	27	27	27	26	25	24	24	22	24	25	24	23	22	25	25

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. JANUARY, 1961

TABLE 17

THULE, GREENLAND (76.0N, 68.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 34	U 32	U 31	U 34	U 33	U 33	U 36	U 335	U 39	U 44	U 455	U 50	U 515	U 505	U 66	U 485	U 48	U 45	U 40	U 43	U 31	U 36	U 345	U 40
	CNT	11	11	6	10	12	9	14	12	14	9	12	9	8	6	5	10	8	10	13	14	10	7	14	13
	UQ	45	35	44	38	38	42	40	45	45	53	54	74	58	52	96	54	73	55	46	50	40	40	37	43
	LQ	30	25	29	25	28	27	34	30	31	33	30	45	41	37	52	43	34	40	35	38	26	34	25	30
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ	270	272	265	273	283	260	270	261	2415	248	240	228	2355	236	230	242	239	250	243	2475	248	252	260	266
	CNT	26	28	26	27	26	26	27	27	26	27	26	29	28	24	25	27	29	29	28	28	28	29	29	26
	UQ	282	292	285	308	305	270	282	300	260	262	260	240	254	254	247	255	248	262	268	254	270	262	280	276
	LQ	257	240	250	260	258	249	242	250	230	228	225	220	229	220	220	228	228	238	236	230	233	238	250	253
(M3000)F2	MEQ	U 275	U 265		U 265	U 2675	U 2825	U 280	U 275	U 275	U 2875	U 285	U 285	U 290				U 2875	U 285	U 285	U 295	U 285		U 270	U 2875
	CNT	7	9	3	10	8	6	11	7	10	6	11	5	7	4	4	3	8	5	9	10	7	4	9	8
	UQ	285	290		275	280	285	290	285	285	290	300	295	310				300	310	295	310	300		300	290
	LQ	250	260		255	260	280	265	255	265	285	250	270	265				270	270	270	290	265		260	280
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ								16			17		215	33	22	325	23	20	255	18	23	33		
	CNT	28	28	27	27	27	27	27	27	28	27	26	30	30	29	28	30	29	29	28	29	29	29	29	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1960

TABLE 18

POINT BARROW, ALASKA (71.3N, 156.8W)

TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 345	U 355	U 345	U 37	U 42	U 32	U 38	U 40	U 41	U 365	U 43	U 40	U 48	U 52	U 63	U 62	U 58	U 36	U 33	U 36	U 35	U 355	U 41	U 32
	CNT	4	6	2	5	3	5	7	6	9	14	10	16	17	23	23	23	21	16	14	12	7	2	2	1
	UQ	39	39		44	44	40	40	43	50	38	44	48	61	66	77	77	68	44	40	42	43			
	LQ	24	33		33	35	30	33	34	34	33	37	36	42	45	54	52	46	33	28	30	34			
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ		U 300		U 270		U 270	U 260	U 2525	U 270	U 2625	U 280	U 285	U 295	U 300	U 300	U 305	U 300	U 2975	U 300	U 285	U 2925			
	CNT	4	6	1	5	3	5	7	6	6	12	9	15	17	21	23	23	20	16	13	11	6	2	2	1
	UQ		320		280		280	275	260	275	280	290	290	305	305	310	310	310	310	310	305	300			
	LQ		260		260		260	250	240	260	245	260	275	280	285	290	290	285	290	285	270	290			
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ	60	48	49	43	375	335	365	40	45	40	355	34	255					25	28	35	385	41	465	68
	CNT	27	26	26	27	24	26	22	24	27	24	22	25	22	29	30	30	30	29	27	30	30	31	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1960

TABLE 19

GODHAVN, GREENLAND (69.3N, 53.5W)

TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 33	U 31	U 29	U 33	U 305		U 31			U 42	U 495	U 455	U 46	U 50	U 50	U 45	U 48	U 475	U 45	U 46	U 49	U 405	U 37	U 395
	CNT	16	16	12	8	8	4	5	4	2	5	12	6	6	11	10	9	10	12	13	11	11	8	8	8
	UQ	36	38	34	36	32	32	32	36		44	56	52	55	55	55	54	54	53	52	52	57	46	40	43
	LQ	31	28	27	30	30	28	28	27		39	44	42	39	42	42	38	44	44	40	40	40	36	34	32
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 285	U 280					U				U					U		U	U		U			
	CNT	7	5	4	2	2	1		1			300		3	2	4	315	1	280	300	3	290	3	1	4
	UQ	300	300									5	3				5		5	5		5			
	LQ	280	275									310					320		300	280		315			
												270					310		275			270			
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ																	26	31		36	44			
	CNT	25	23	21	24	21	22	23	21	20	24	24	25	24	27	27	26	26	26	27	25	23	23	25	21

SWEEP 1.6 MC TO 20.0 MC IN 18 SECONDS.

DECEMBER, 1960

TABLE 20

REYKJAVIK, ICELAND (64.1N, 21.8W)

TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MEQ	O 36	O 35	O 325	U 32	U 35	U 335	U 315	U 35	U 32	U 37	U 555	U 66	U 705	U 64	U 60	U 59	O 445	U 36	U 34	O 38	U D	U 44	U 36	U 59	U 315
	CNT	4	3	4	2	3	4	4	3	5	8	14	23	22	24	19	17	16	8	5	4		5	4	1	2
	UQ	38	36	34		36	38	36	35	34	41	58	72	95	85	70	65	52	44	46	44		54	36		
	LQ	33	33	31		32	29	31	32	29	32	45	57	59	58	56	39	37	34	28	34		36	34		
h'F2	MEQ																									
	CNT																									
	UQ																									
	LQ																									
h'F	MEQ			U							E								U	U		U				
	CNT	4	3	360 5	2	3	4	4	1	4	300 8	270 13	2625 22	250 20	250 21	245 19	260 22	260 17	260 8	290 6	3	300 6	3	2	2	
	UQ	350	355	395		380	370	310		335	300	300	300	280	270	270	300	325	270	340	320	320	345			
	LQ	330	345	310		350	320	300		310	280	255	250	240	235	230	235	250	260	270	285	280	300			
(M3000)F2	MEQ		1	1	1	2	4	4	1	4	U 305	310	320	3275	330	330	320	310	U 310			2		1		
	CNT										7	13	22	20	20	16	15	11	5	3						
	UQ										320	320	335	340	340	340	335	330	345							
	LQ										290	300	305	310	320	325	310	290	300							
foF1	MEQ																									
	CNT																									
foE	MEQ																									
	CNT																									
h'E	MEQ																									
	CNT																									
foEs	MEQ	35	33	31	U 32	U 27													34	36	37	36	355	36	36	
	CNT	10	13	13	5	5	5	5	2	4	8	13	22	20	21	21	25	23	22	19	19	17	14	16	13	

SWEEP 1.0 MC TO 25.0 MC IN 16.2 SECONDS.

DECEMBER, 1960

TABLE 21

NARSSARSSUAQ, GREENLAND (61.2N, 45.4W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 42	U 37		U 37	U 37	U 41	U 36	U 29	U 375	U 51	U 69	U 845	U 835	U 74	U 64	U 605	U 43	U 39	U 40	U 42	U 38	U 38	U 375	U 35
	CNT	7	8	2	7	10	10	13	6	12	26	26	24	24	23	25	14	14	8	11	9	5	6	10	6
	UQ	49	40		42	43	47	42	34	40	56	79	100	102	93	78	70	70	52	47	54	42	50	47	41
	LQ	38	30		36	32	35	32	25	36	47	59	68	70	61	48	51	36	32	35	36	30	35	36	30
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEO																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED				U 275		U 2775	U 290		U 290	U 305	U 315	U 3075	U 325	U 3225	U 3225	U 315	U 310	U 300	U 300	U 280			U 270	
	CNT	4	4	2	5	4	6	8	4	10	25	23	24	21	22	22	11	13	5	7	6	4	4	6	3
	UQ				300		300	300		300	320	320	325	330	335	330	325	320	310	320	290			275	
	LQ				260		275	290		285	295	295	300	310	310	305	305	290	280	275	265			270	
foF1	MED																								
	CNT																								
foE	MEO																								
	CNT												1	4	2	260 7	220 5	2							
h'E	MED																								
	CNT										1	1	1	3	3	122 8	114 6	2							
foEs	MEO	385	40	36	40	40	455	38	33									30	305	375	36	42	36	39	36
	CNT	30	31	25	27	27	24	22	14	14	26	27	25	27	29	27	31	31	28	30	30	27	29	29	28

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. DECEMBER, 1960

TABLE 22

MAUI, HAWAII (20.8N, 156.5W) TIME 150.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 57	U 595	40	335	27	26	27	49	88	115	130	126	134	144	151	145	129	127	100	725	66	715	66	U 62
	CNT	27	28	29	24	24	25	29	31	31	31	31	31	31	31	31	31	31	31	31	30	31	30	26	24
	UQ	65	70	53	43	32	31	32	58	95	125	135	140	148	153	158	155	150	136	123	92	80	86	88	66
	LQ	44	45	34	29	20	19	20	45	83	110	119	120	127	137	145	129	118	101	69	54	57	55	58	52
h'F2	MEO										265	260	260	2775	280	270	2475	2425							
	CNT									2	11	18	15	16	17	20	18	12							
	UQ										270	270	280	310	300	280	265	250							
	LQ										255	250	250	270	265	270	240	230							
h'F	MEO	250	245	E 2275	230	250	E 310	315	265	245	230	E 2225	215	205	215	220	225	230	230	210	U 210	U 240	240	240	U 245
	CNT	30	31	30	26	23	24	27	31	31	30	26	24	23	24	17	19	24	30	31	29	29	31	31	31
	UQ	270	260	250	255	325	330	325	280	250	235	230	220	215	230	235	235	240	240	225	225	255	255	259	275
	LQ	240	230	215	205	230	280	280	250	240	225	220	205	205	205	210	220	220	225	200	200	220	220	225	220
(M3000)F2	MEO	U 3075	U 330	3425	3325	265	2675	280	310	320	320	320	305	295	300	305	310	315	330	330	310	315	315	320	310
	CNT	24	28	28	22	19	24	29	31	31	31	31	31	31	31	31	31	31	31	31	29	30	29	26	21
	UQ	315	350	365	350	310	290	290	310	330	330	330	310	310	310	315	320	325	340	345	325	330	335	330	330
	LQ	280	300	320	300	260	255	260	285	305	300	315	300	290	295	295	295	300	315	320	300	290	290	290	285
foF1	MEO													1	1										
	CNT																								
foE	MEO								185	255	300	335	U 350	355	350	U 340	335	290							
	CNT								17	24	26	24	21	15	10	9	8	9	3	1					
h'E	MED								155	117	112	109	109	107	107	107	107	109	109						
	CNT								5	28	28	30	31	30	29	27	24	19	6	1					
foEs	MEO	23	19	16	13	17	18	18		27	34	40	42	45	49	53	52	50	45	42	43	42	39	38	32
	CNT	31	31	31	31	31	31	29	30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. DECEMBER, 1960

TABLE 23

BAGUIO, P. I. (16.4N, 120.6E) TIME 120.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	815	745	67	53	45	42	46	86	118	D 130	1245	D 120	D 122	124	O 1245	U 1285	130	U 120	O 110	D 110	D 110	105	95	885
	CNT	30	30	30	30	29	29	27	29	28	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30
	UQ	97	89	82	63	57	54	56	92	126	138	138	134	134	130	130	136	133	130	123	114	117	120	113	96
	LQ	66	57	53	37	36	32	36	80	108	116	105	107	104	114	114	117	121	100	100	100	98	90	75	67
h'F2	MEO										U 285		U 3025												
	CNT									3	6	4	6	3	4	3	2	3							
	UQ										295		310												
	LQ										280		290												
h'F	MEO	2525	2475	250	250	270	275	290	270	255	245	230	E 230	225	U 235	E 2425	U 250	260	270	270	270	265	250	240	250
	CNT	30	30	30	30	29	30	29	29	29	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30
	UQ	265	260	260	275	310	320	330	275	260	250	240	230	230	255	250	270	265	275	280	285	285	260	250	265
	LQ	250	240	235	230	250	250	280	265	250	240	225	220	215	220	235	245	255	265	260	250	240	235	235	240
(M3000)F2	MEO	300	310	320	2975	280	300	280	305	U 300	U 300	270	U 245	U 250	U 2575	U 265	U 280	U 285	U 2925	U 300	U 295	U 300	U 3075	U 300	295
	CNT	28	29	29	30	29	28	25	29	22	21	21	18	22	24	15	14	17	8	10	8	15	20	26	27
	UQ	310	320	330	320	310	310	300	320	320	310	290	265	265	270	285	290	305	300	310	305	320	320	310	305
	LQ	290	305	305	270	270	270	265	290	300	285	255	230	235	245	250	265	270	275	290	280	280	300	290	285
foF1	MEO																								
	CNT											1	2												
foE	MEO								230	U 2875	330	U 350	Q 350	U 375	U 355	U 345	320	U 270							
	CNT								19	22	18	17	13	12	13	14	13	11	3						
h'E	MEO								E 132	U 123	U 123	121	121	121	121	121	121	U 125							
	CNT								24	26	28	26	26	19	21	24	20	15	4						
foEs	MED	16									29	355		D 395	D 36	38	359	325	315	30	285	30	D 225	205	
	CNT	30	30	30	30	30	30	29	29	29	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. DECEMBER, 1960

TABLE 24

LA PAZ, BOLIVIA (16.5S, 68.1W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEO	U 87	U 69	U 60	U 62	U 64	U 52	56	84	985	110	111	113	108	112	118	122	1175	1175	116	U 113	100	U 89	U 83	U 885
	CNT	3	3	3	3	5	6	13	17	18	19	20	21	21	21	20	18	18	20	20	21	16	11	6	4
	UQ	90	71	62	65	70	59	70	89	108	115	118	122	121	121	128	128	132	131	130	124	111	95	104	105
	LQ	72	58	55	54	48	42	52	80	92	100	106	97	96	98	106	108	109	108	101	92	88	85	77	78
h'F2	MEO										1	1	1	1	3	3	2	1							
	CNT														400	350									
	UQ														350	340									
	LQ																								
h'F	MEO	U 300	U 300	U 300	U 3075	2875	U 260	260	240	2275	215	210	200	200	200	200	210	2175	230	2625	E 300	U 340	U 360	U 350	U 340
	CNT	8	7	7	8	10	13	18	17	18	16	19	19	19	18	17	17	16	19	20	21	17	9	7	7
	UQ	380	330	330	320	345	290	270	240	230	220	220	210	200	210	210	225	235	250	285	300	380	390	400	400
	LQ	250	260	280	270	240	230	250	235	220	210	200	200	200	200	200	200	210	220	250	280	320	350	315	250
(M3000)F2	MEO					U 300	U 3175	310	300	280	260	2475	2375	230	240	235	235	240	240	240	U 2425	U 245	U 245	U 2425	
	CNT	3	3	3	3	5	6	12	17	18	17	18	20	20	19	18	17	17	19	17	12	9	9	6	3
	UQ	300	280	290	300	330	320	320	310	290	275	265	250	240	250	245	250	265	255	255	270	260	250	255	310
	LQ	280	270	275	280	265	310	300	290	270	250	235	230	225	230	230	230	230	230	230	230	225	230	240	260
foF1	MED																								
	CNT											1	4	3	3	1		1							
foE	MEO								250	310	U 350	U 375	U 390	U 395	U 400	U 390	U 370	U 350	U 310	U 250					
	CNT							3	12	16	11	7	9	6	7	8	5	9	12	14	4				
h'E	MEO								115	110	109				110	109	111	111	109	115					
	CNT							2	10	8	6	2	4	3	6	8	7	7	9	6	1				
foEs	MEO	44	40	45	345	41	43	405	50	59	74	75	76	78	74	765	73	74	70	57	43	285	27	28	25
	CNT	17	17	17	16	18	17	18	17	18	18	18	21	21	20	20	18	18	20	19	21	18	17	16	18

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS. DECEMBER, 1960

TABLE 25

CONCEPCION, CHILE (36.8S, 73.0W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	94	96	94	85	80	86	Q 94	98	101	108	112	119	121	119	117.5	118	109.5	109	98	90	91	94	Q 94	96
	CNT	29	25	27	22	22	29	29	30	29	29	29	29	28	29	28	29	30	30	29	30	30	27	27	27
	UQ	100	104	98	94	90	96	100	105	111	116	118	122	124	126	122	120	120	115	107	95	94	96	101	101
	LQ	88	84	74	76	74	71	78	89	87	98	105	114	114	111	112	108	105	94	76	76	84	89	90	90
h'F2	MED									U 355	3625	360	355	355	340	350	330	310	2975						
	CNT									6	14	19	24	25	25	25	25	22	16						
	UQ									410	400	395	380	375	370	370	350	340	310						
	LQ									340	320	330	340	325	320	320	305	295	275						
h'F	MED	320	3025	290	310	315	255	E 245	U 240	U 235	E 230	E 2225	U 220	U 210	U 230	E 2275	U 230	U 235	U 250	U 265	U 290	350	350	350	340
	CNT	29	30	29	29	29	30	30	30	27	25	24	25	23	26	22	25	27	24	29	30	30	30	29	30
	UQ	335	330	330	330	340	260	250	250	260	250	260	250	240	255	240	240	260	270	280	305	360	360	350	350
	LQ	285	260	255	270	290	250	240	235	225	220	210	200	195	210	210	220	230	235	250	270	335	350	340	300
(M3000)F2	MED	270	270	270	260	260	265	2725	265	260	260	260	275	2725	270	275	275	280	290	280	260	250	250	255	2575
	CNT	25	25	26	20	21	28	24	29	29	29	29	28	26	28	28	29	30	30	29	28	28	23	22	22
	UQ	285	300	290	270	265	270	285	280	270	270	280	280	290	280	290	300	300	310	300	270	250	255	260	270
	LQ	260	255	260	260	250	260	260	250	250	250	255	260	260	260	270	270	270	280	270	250	250	245	250	250
foF1	MED									U 2	520	530	535	555	U 520	530									
	CNT										7	9	10	10	7	6	4								
foE	MED					E		U		U	U	U		400	U 390	3825	360	330	U 290	U 230					
	CNT					22	200 18	265	310 28	340 25	360 21	375 19	400 13	15	21	20	21	24	21	13					
h'E	MED					E				109	109	109	109	109	111	110	109	111	111	119					
	CNT					30	121 28	109 30	109 30	31	30	29	26	28	29	28	28	30	28	23					
foEs	MED	495	395	305	225	225	25	325	44	45	47	47	45	46	44	425	41	39	45	415	345	41	38	44	45
	CNT	30	30	30	30	30	30	30	30	31	30	29	29	28	29	28	29	30	30	30	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1960

TABLE 26

BYRD STATION (80.0S, 120.0W)

TIME 120.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	51	U 505	49	48	49	51	53	515	54	58	60	61	635	625	64	64	U 625	U 605	U 55	U 55	U 50	U 55	U 52	U 52
	CNT	13	12	12	14	15	22	19	28	26	28	24	27	28	26	27	22	24	22	22	22	15	13	17	13
	UQ	55	56	59	55	55	54	57	56	60	62	65	68	69	67	72	75	67	67	64	62	58	60	58	57
	LQ	49	48	44	46	46	45	47	48	50	54	56	57	59	56	56	57	54	52	50	49	47	48	50	48
h'F2	MED	430	U 405	U 500		U 430	450	U 370	415	440	400	3975	355	4075	390	3925	370	4025	375	415	U 435	430	415	395	400
	CNT	13	9	7	4	5	10	5	15	18	19	14	23	22	25	24	23	18	16	22	19	11	11	16	15
	UQ	490	460	525	475				670	485	440	425	400	455	440	480	460	425	450	535	480	450	460	435	420
	LQ	380	360	385	430	340	370	355	355	350	350	360	335	345	340	345	350	345	365	370	380	395	365	360	360
h'F	MED	265	2675	U 300	E 295	U 2775	U 270	U 250	250	255	230	225	220	220	225	240	U 2375	265	260	260	255	2575	260	E 3025	U 2675
	CNT	11	14	10	13	14	19	18	21	27	27	27	25	28	25	29	22	24	21	25	20	22	16	18	14
	UQ	280	300	340	315	300	290	280	260	275	250	245	230	240	235	260	275	295	280	270	280	285	290	335	305
	LQ	240	245	265	280	240	245	230	240	230	220	220	210	215	215	225	225	240	230	240	230	245	240	240	245
(M3000)F2	MED	250	U 260	260	U 280	2875	280	280	275	275	275	275	275	275	265	260	270	265	265	U 2575	U 260	U 260	U 260	U 255	U 260
	CNT	11	9	12	9	10	17	17	23	26	27	22	26	27	23	26	22	21	15	16	14	9	7	10	9
	UQ	265	275	280	290	305	300	290	295	295	285	295	295	290	280	275	280	270	275	270	275	270	275	270	270
	LQ	230	240	230	250	280	250	270	255	255	255	265	260	250	245	240	255	250	260	230	240	250	250	250	245
foF1	MED	U 370	380				420		420	420	435	U 440	U 440	440	430	430	435	425	440	430	U 400	385	U 380	U 395	U 380
	CNT	7	6	3	4	3	5	4	10	13	14	17	19	19	19	22	18	20	13	19	15	10	7	10	7
foE	MED	U 260	O 260	O 300		O 285	O 270	Q 280	Q 280	O 280	295	295	300	U 2975	U 2975	U 295	U 290	U 280	D 285	U 280	O 260	U 260	D 250	U 250	D 260
	CNT	7	11	5	3	6	7	7	11	12	18	17	25	24	24	25	25	24	22	19	18	13	10	7	9
h'E	MED	110	111	109		111	101	101	101	101	101	101	101	101	101	101	101	105	101	101	101	103	103	103	110
	CNT	8	13	5	4	5	7	9	12	14	18	17	25	24	25	27	25	25	22	20	21	17	15	10	10
foEs	MED	41	36	44	455	45		34													33	35	47	53	42
	CNT	29	29	24	26	23	21	23	29	29	28	28	28	29	30	30	30	30	31	30	31	28	28	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1960

TABLE 27

POLE STATION (90.0S)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 55	U 49	49	U 515	U 525	U 48	U 485	48	U 47	U 445	U 45	E 435	U 44	U 475	51	62	U 595	U 53	U 545	U 50	U 56	U 54	U 575	U 53
	CNT	17	23	19	22	14	23	18	19	17	18	15	16	15	18	21	21	24	17	20	19	18	21	18	19
	UQ	60	57	60	56	61	57	56	60	50	48	48	47	48	51	54	68	68	56	58	58	57	60	62	61
	LQ	47	47	45	48	46	41	45	43	43	41	38	39	43	44	48	47	52	49	47	47	45	50	49	50
h'F2	MED	390	U 450	430	460	460	500	470	500	5075	6675	525	G	U 630	U 640	450	420	420	450	475	475	U 390	U 400	U 445	375
	CNT	13	23	27	23	19	25	25	27	18	16	10	13	11	12	16	21	23	20	20	15	13	7	6	15
	UQ	440	530	485	530	510	680	610	550	680	760			730		530	490	465	525	540	590	650	530	495	470
	LQ	355	400	390	385	390	420	430	400	400	490	450	560	425	545	400	370	365	400	410	370	340	330	320	350
h'F	MED	2275	240	2275	230	230	225	225	220	220	215	225	245	265	U 2675	U 250	250	240	240	240	240	240	235	240	230
	CNT	26	31	26	27	26	27	29	28	27	27	17	16	15	26	28	26	27	27	27	23	25	27	24	25
	UQ	240	260	240	250	240	245	230	225	230	235	255	270	275	280	280	265	265	255	250	255	245	245	250	250
	LQ	220	225	220	220	220	210	205	210	210	205	210	220	250	250	240	240	230	225	225	220	230	220	225	225
(M3000)F2	MED	U 275	U 2575	U 2475	U 255	U 2475	U 235	240	U 245	225	2225	220	G	U 2425	U 265	270	260	U 250	U 2475	U 260	U 275	U 280	U 270	U 2925	U 2975
	CNT	13	14	12	16	10	19	14	14	13	10	9	12	10	15	17	19	18	12	15	13	8	15	16	10
	UQ	290	270	260	280	260	265	255	255	260	260	285	260	300	295	280	285	280	280	285	290	300	300	305	315
	LQ	255	250	235	240	235								205	240	260	240	240	210	240	240	245	255	265	270
foF1	MED	U 410	410	390	400	400	390	U 400	U 395	405	U 390	U 380	400	405	U 400	415	U 410	400	400	400	405	410	405	390	U 400
	CNT	11	21	22	22	23	25	25	26	18	21	11	11	8	14	14	13	19	19	17	14	13	6	6	9
foE	MED	U 280	270	U 2675	2675	270	2625	270	275	280	280	O 280	U 300	U 310	300	U 295	295	280	275	270	U 270	2775	270	260	270
	CNT	21	22	22	22	20	22	25	27	26	24	20	20	15	18	19	24	27	29	26	25	26	26	24	24
h'E	MED	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
	CNT	21	23	24	23	20	24	25	28	27	27	26	21	22	21	22	28	28	30	28	28	28	28	28	25
foEs	MED	53	50	545	325	40	335	38	38	30	30	31	43	48	40					365	425	355	425	555	595
	CNT	30	31	30	30	29	30	30	30	30	29	29	28	29	30	30	30	30	30	30	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

DECEMBER, 1960

TABLE 28

POLE STATION (90.0S)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 52	U 52	U 58	U 62	61	U 60	U 675	U 59	U 565	U 54	U 535	50	53	U 52	535	595	67	U 60	58	U 495	U 47	U 48	U 48	53
	CNT	22	22	25	26	30	23	22	20	20	14	18	19	17	19	24	26	26	18	13	12	14	14	18	19
	UQ	58	62	70	76	72	71	75	83	71	58	60	56	57	55	57	65	75	75	66	57	51	55	52	64
	LQ	48	50	48	52	51	50	60	48	50	46	43	41	44	46	46	52	60	47	42	36	46	44	43	46
h'F2	MED							U 395	U 4225																
	CNT		1	1	2	4	3	6	8	3	1	4	3	1	3	1	1	3	4						
	UQ							420	460																
	LQ							360	360																
h'F	MED	255	E 2675	275	280	275	285	280	280	280	E 2925	2725	U 295	290	290	280	275	275	2775	270	275	280	2675	2725	250
	CNT	29	26	30	30	31	29	29	26	25	24	20	20	25	24	27	30	27	26	25	24	25	24	30	27
	UQ	270	290	295	290	285	320	300	295	295	320	300	330	340	305	300	295	300	310	290	295	295	300	285	270
	LQ	245	255	265	265	260	265	265	270	260	260	255	270	270	270	260	265	260	250	260	250	260	250	260	235
(M3000)F2	MED	280	U 270	275	U 270	270	265	250	260	U 2675	U 265	270	290	290	U 300	300	290	280	290	295	285	U 280	290	U 290	290
	CNT	17	16	19	21	24	15	16	11	16	8	12	15	13	15	20	25	21	13	11	10	11	10	11	11
	UQ	290	280	280	280	280	275	270	270	280	270	275	300	300	300	305	305	300	305	310	310	300	300	300	305
	LQ	270	270	260	250	260	240	250	250	260	240	250	260	280	270	285	280	260	275	280	270	270	280	280	270
foF1	MED					2	1	2	2	4	3	4	3	2	2		1		1						
	CNT																								
foE	MED	U 190	U 200	1825	185	190	U 1775	1875	U 190	U 190	U 195	U 2225	250	260	250	2425	U 220	2075	U 200	U 210	210	220	230	U 210	195
	CNT	13	11	18	21	22	18	20	18	19	15	10	10	11	11	16	12	16	17	17	15	20	19	17	13
h'E	MED	115	115	121	119	121	115	116	117	117	115	113	119	109	108	109	109	U 113	114	115	114	120	120	125	119
	CNT	20	18	22	26	27	21	24	27	27	23	15	18	17	14	19	15	18	22	20	24	22	22	23	25
foEs	MED	45	36	23	20			19		255	285	33	37	365	28						24	23	29	345	26
	CNT	30	29	31	31	31	30	30	31	30	30	30	28	30	29	29	30	30	30	30	29	30	30	30	29

SWEEP 1.0 MC TO 25.0 MC IN 13.5 SECONDS.

MARCH, 1960

TABLE 29

REYKJAVIK, ICELAND (64.1N, 21.8W)

TIME 15.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 43	D 42	U 40	U 40	U 42	39	D 37	39	47	62	755	835	93	97	96	90	70	O 54	54	O 465	D 52	D 495	D 48	U 525
	CNT	7	5	7	7	7	13	15	19	23	23	24	26	27	27	27	27	19	20	16	12	9	8	9	8
	UQ	48	45	45	48	48	46	44	42	50	68	83	93	101	105	107	98	90	87	83	69	71	65	57	58
	LQ	35	37	36	37	40	36	34	35	43	54	66	75	82	84	77	66	52	48	44	40	40	39	35	42
h'F2	MED																								
	CNT											1			2	2	1								
	UQ																								
	LQ																								
h'F	MED	370	3575	E 360	340	330	330	310	300	265	250	250	240	240	240	2375	240	255	285	250	E 310	300	305	350	340
	CNT	11	10	12	12	11	13	16	16	21	22	23	26	25	27	26	29	28	26	25	22	18	18	16	15
	UQ	410	400	390	360	350	345	340	330	280	270	265	260	250	250	260	270	300	330	295	340	310	340	375	375
	LQ	330	310	340	310	320	290	280	255	250	240	230	230	230	230	220	230	230	230	220	240	270	280	315	320
(M3000)F2	MED				U 280	U 280	U 280	280	285	300	315	315	310	310	310	310	315	U 310	315	U 305	U 305	U 310	U 310		
	CNT	1	3	1	5	5	9	10	15	21	22	22	26	24	24	24	25	17	12	8	6	5	7	4	3
	UQ				290	285	280	290	290	310	320	330	320	320	320	320	320	320	320	320	325	310	315		
	LQ				265	270	280	275	275	280	300	305	300	310	300	300	300	300	300	290	290	265	270		
foF1	MED																								
	CNT															1									
foE	MED											D 250													
	CNT									1	1	2	5	4	3	4	3	1							
h'E	MED												121												
	CNT									1	2	2	5	4	3	4	3	3							
foEs	MED	355	285		22																295	32	33	35	35
	CNT	18	14	14	15	14	15	19	16	21	22	23	26	25	27	26	29	28	26	26	26	24	25	21	21

SWEEP 1.0 MC TO 29.0 MC IN 16.2 SECONDS.

FEBRUARY, 1960

TABLE 30

LULEA, SWEDEN (65.6N, 22.1E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	44	44	49	52	40	40	36	41	53	70	87	96	110	97	94	76	70	62	50	47	40	40	U 39	U 36
	CNT	17	17	22	20	20	21	21	22	25	24	26	26	25	28	24	22	19	19	20	15	13	13	13	16
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	350	340	320	305	305	290	260	275	250	245	245	240	240	235	240	230	230	245	260	285	270	300	350	350
	CNT	20	19	23	22	20	23	23	22	25	23	26	25	26	26	24	23	20	18	21	18	13	14	15	16
	UQ																								
	LQ																								
(M3000)F2	MED	260	270	260	260	280	280	290	290	300	310	310	310	310	310	320	320	310	300	290	300	270	270	270	250
	CNT	8	11	14	11	10	16	15	15	25	22	25	23	23	27	24	20	17	18	16	10	13	12	10	10
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	280	240			U 240			U 120	160	200	210	210	220	200	190	150			250		220			
	CNT	1	2			1			1	6	5	6	7	4	7	7	7			1		1			
h'E	MED									150	115	125	115	110	135	115	E								
	CNT									2	2	1	1	3	2	2	4								
foEs	MED	31	33	25	29	26	27	20	19	14	19	20	G	G	G	19	G	41	31	33	38	41	43	41	33
	CNT	19	20	17	10	9	5	3	2	16	12	12	9	9	13	17	19	11	11	14	20	20	19	18	17

SWEEP 0.65 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

NOVEMBER, 1959

TABLE 31

DOURBES, BELGIUM (50.1N, 4.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	56	52	49	46	42	43	55	62	66	73	78	82	86	88	84	86	86	88	88	82	74	63	58	57
	CNT	30	28	30	30	30	28	28	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	29
	UQ	59	56	55	52	48	50	62	72	78	82	88	96	97	97	97	94	94	98	96	88	78	67	62	60
	LQ	45	44	44	38	36	38	48	53	59	62	64	68	73	75	75	78	78	80	82	77	68	55	53	46
h'F2	MED								430	405	G 500	360	362	342	325	400	510								
	CNT								5	5	7	9	14	8	10	3	1								
	UQ								512	462	550	418	450	372	410	450									
	LQ								308	400	415	322	305	298	310	345									
h'F	MED	310	312	300	314	U 298	290	255	240	230	220	215	218	220	221	230	235	240	251	245	244	240	259	282	315
	CNT	30	30	30	30	30	28	29	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	UQ	330	330	325	360	340	315	278	255	240	230	225	222	228	230	235	240	248	260	252	260	250	290	315	342
	LQ	300	300	295	280	270	265	248	235	220	215	210	210	210	210	225	230	238	245	240	235	238	245	270	300
(M3000)F2	MED	250	245	245	250	255	268	298	310	295	290	288	285	285	285	285	290	290	292	295	285	285	262	255	250
	CNT	30	28	30	29	30	28	28	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	29
	UQ	255	255	255	260	260	280	310	315	305	298	295	295	290	290	290	295	295	300	300	295	300	270	260	258
	LQ	235	235	235	240	245	258	285	275	272	262	265	275	280	275	280	280	280	285	285	280	270	250	245	240
foF1	MED							330	390	470	480	U 500	520	535	U 530	545									
	CNT							1	5	6	7	7	6	5	6	2									
foE	MED						E 150	220	268	295	395	345	360	355	350	335	315	280	220	E 160					
	CNT						7	14	18	15	13	15	13	15	15	18	24	21	16	9					
h'E	MED						107	U 107	106	105	105	104	104	104	105	106	106	107	E 116	E 124					
	CNT						9	21	30	30	29	30	29	29	30	29	30	29	24	4					
foEs	MED	E 12	E 11	E 11	E 11	E 13	J 16	G	27	31	34	G	36	G	G	G	G	G	G	17	17	17	E 16	E 16	E 16
	CNT	30	30	30	30	30	30	30	30	30	29	30	30	30	30	30	30	30	29	30	30	30	30	30	30

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

SEPTEMBER, 1959

TABLE 32

NATAL, BRAZIL (5.3S, 35.1W)

TIME 30.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED							U 43	U 81	U 105	U 118	U 127	U 132	U 134	U 135	U 135	U 129	U 128	U 125	O 120	O 100					
	CNT			2		4	3	5	7	7	6	6	6	5	5	5	5	7	5	5	7	4				
	UQ							50	84	108	122	130	136	140	140	140	130	130	129	130	105					
	LQ							35	77	103	117	125	124	124	123	123	126	123	121	110	90					
h'F2	MED											1			1	1	1	1	1							
	CNT																									
	UQ																									
	LQ																									
h'F	MED				260	270	230	230	250	235	220				E 220	E 250										
	CNT	2	2	3	5	7	7	7	7	7	6	4	4	4	6	6	3	7	5	7	7	3	3	1		
	UQ																									
	LQ																									
(M3000)F2	MED								U 315	U 310	U 295	U 265	U 250	U 245	U 230	U 235		U 235	U 230							
	CNT			2		3	3	4	7	5	6	5	5	5	5	5	3	7	5	4	1	3				
	UQ																									
	LQ																									
foF1	MED														1	1		1	1							
	CNT																									
foE	MED								235	310	360							365								
	CNT							1	7	6	5	4	3	4	1		2	5	4	1						
h'E	MED								131	107								3	2							
	CNT								6	5	4	1														
foEs	MED							U 52	U 43	U 58	U 42		U 44	U 42				U 43	U 30							
	CNT	7	5	7	7	7	6	6	6	7	6	5	6	6	7	7	6	7	7	7	7	7	6	6	6	

SWEEP 1.0 MC TO 25.0 MC IN 32.4 SECONDS.

AUGUST, 1959

TABLE 33

NATAL, BRAZIL (5.3S, 35.1W)

TIME 30.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED							U	U	U	U	U		D	U	D	U	D	D	D	D	U			
	CNT					2	4	44	78	102	112	125		128	122	116	122	112	110	98	90	74			
	UQ							5	6	6	5	5	6	6	5	6	6	6	7	7	8	7	1		
	LQ							48	79	103	120	128			140	130	125	122	122	120	98	74			
								35	74	100	111	118			110	110	114	107	105	92	86	65			
h'F2	MED																								
	CNT												1	1	1	1		2	2						
	UQ																								
	LQ																								
h'F	MED						U	U	U	U	U	U	E	E	E	U	U	U	U	U	U	U			
	CNT			1	3	3	240	240	250	235	220	210	210	285	340	205	235	210	240	270	300	400			
	UQ					4	6	6	7	7	6	6	7	7	7	7	6	7	8	8	9	5	3	2	
	LQ																								
(M3000)F2	MED							U	U	U	U			U	U				U			U			
	CNT							310	325	320	300			320	300				235			215			
	UQ					2	4	6	7	7	5	4	3	7	5	3	2	4	5	4	3	6	1		
	LQ																								
foF1	MED																								
	CNT												1	1	1	1		1	1						
foE	MED																								
	CNT							4	3	4	4	1	2	1	3	3	3	4	305	3					
																			5						
h'E	MED									109															
	CNT								3	5	2					1		1	2						
foEs	MED											U						U	U						
	CNT	6	6	8	8	7	7	7	7	7	5	40	6	7	7	6	6	43	40			9	8	9	9
												6						7	7	8	9				

SWEEP 1.0 MC TO 25.0 MC IN 32.4 SECONDS.

JULY, 1959

TABLE 34

PRUHONICE, CZECHOSLOVAKIA (50.0N, 14.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	74	70	68	67	74	82	84	85	86	85	85	83	84	81	80	77	78	80	83	80	80	84	79	77
	CNT	26	25	27	29	29	26	22	26	24	24	22	25	23	23	24	26	25	25	23	22	22	20	21	23
	UQ																								
	LQ																								
h'F2	MED																								
	CNT					4	320	395	380	400	410	385	405	425	400	410	405	390							
	UQ						4	8	13	15	11	15	15	16	17	19	16	12	3						
	LQ																								
h'F	MED	305	300	300	300	270	245	240	225	225	225	220	220	235	230	230	230	240	250	280	280	290	290	295	310
	CNT	23	22	25	23	22	19	13	7	9	6	9	14	17	15	11	14	16	15	16	19	19	18	23	23
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT					4	460	500	510	550	580	590	580	580	560	560	550	510							
							4	8	13	13	10	14	13	15	17	20	16	12	3						
foE	MED																								
	CNT				1	220	280	320	350	370	380	390	380	390	390	380	350	320	290	230					
					150	43	26	25	24	25	22	17	18	16	13	21	21	23	27	25	1				
					9																				
h'E	MED																								
	CNT				1	120	110	105	105	105	105	105	105	105	105	105	105	105	110	115					
					4	15	28	26	24	25	19	19	17	15	15	17	21	22	27	20	1				
foEs	MED	28	23	23	29	29	40	49	52	44	48	46	46	44	45	45	48	43	48	42	40	46	42	40	46
	CNT	19	25	29	25	29	28	30	28	30	25	26	25	22	24	29	29	27	28	29	27	22	19	11	10

SWEEP 1.0 MC TO 18.0 MC.

JUNE, 1959

TABLE 35

NATAL, BRAZIL (5.3S, 35.1W)

TIME 30.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED					U				U	U	U	U	U	D	U	U	U	U	U	D				
	CNT		2	3	1	3	47	47	82	106	121	125	128	119	113	119	120	116	115	105	86				
	UQ					7	11	12	12	12	9	9	9	11	9	8	7	11	11	11	13	10	6	4	3
	LQ					56	56	54	85	108	124	130	134			129	125		120		90				
						35	37	36	80	101	116	124	124			118	113		110		82				
h'F2	MED																								
	CNT												1					1							
	UQ																								
	LQ																								
h'F	MED			U		U							U	E	E	E	E					E	U		
	CNT		300		270	255	235	250	255	240	220	220	220	260	260	250	220	230	245	275	315	390	420		
	UQ	3	5	4	7	10	11	12	12	12	11	11	9	11	9	8	11	12	11	11	13	10	6	4	3
	LQ																								
(M3000)F2	MED										U	U	U			U	U		U						
	CNT			1	1	1	315	310	310	300	290	270	250			230	240		245						
	UQ					4	11	11	12	10	8	9	5	3	3	6	7	4	9	3	4	1	1		
	LQ																								
foF1	MED																								
	CNT												1					1							
foE	MED																								
	CNT								235	310	350							340	285						
									9	10	8	3	4	1	1	1	4	7	5	1					
h'E	MED																								
	CNT								125	111															
									7	8	4	1	1		1		2	4	3						
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 32.4 SECONDS.

JUNE, 1959

TABLE 36

PORT LOCKROY (64.8S, 63.5W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	25	25	26	26	26	25	24	23	30	55	74	86	95	95	82	69	58	44	31	23	21	21	23	24
	CNT	24	26	29	26	26	22	27	23	19	18	20	25	18	23	23	23	21	25	24	24	28	25	25	23
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	360	360	360	350	335	315	270	265	255	225	215	215	215	210	210	215	210	220	235	250	310	345	350	350
	CNT	23	26	28	26	28	27	27	26	23	26	19	23	27	25	27	23	28	26	24	24	26	27	21	25
	UQ																								
	LQ																								
(M3000)F2	MED	240	245	250	240	250	260	270	270	260	300	330	330	330	330	330	340	335	335	325	290	265	255	250	245
	CNT	23	25	26	22	23	19	20	21	16	14	21	22	16	19	18	21	18	19	19	22	25	25	23	22
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	U		E	E																			E	
	CNT	90		85	75				110	90	135	170	195	200	200	185	150	105		115	85	90	90	100	110
		1		1	1				1	2	2	8	14	16	10	11	11	3		1	1	3	4	1	1
h'E	MED																								
	CNT																								
foEs	MED	G	G	G	G	G		9	11	11										G	G	G	G	G	G
	CNT	27	28	30	28	29	29	29	29	29	29	28	26	28	29	29	26	28	28	28	28	28	28	27	27

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

JUNE, 1959

TABLE 37

TSUMEB, SOUTH W. AFRICA (19.2S, 17.7E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	492	42	42	342	292	262	523	93	1132	1268	1305	1353	1365	1351	1348	1345	132	128	119	1016	93	83	738	537
	CNT	30	29	29	30	30	29	29	30	31	31	31	31	31	31	29	30	31	31	31	28	29	30	30	30
	UO																								
	LQ																								
h'F2	MED															320									
	CNT															1									
	UD																								
	LQ																								
h'F	MED	250	262	250	230	230	243	258	230	225	222	215	220	220	222	224	230	240	240	225	215	225	230	228	228
	CNT	25	27	27	27	27	28	30	30	31	31	30	29	28	28	26	25	27	27	27	22	23	29	26	27
	UQ																								
	LQ																								
(M3000)F2	MED	278	287	297	310	303	290	275	330	318	302	294	286	280	275	271	273	277	285	294	298	295	303	295	289
	CNT	29	28	29	29	30	29	29	30	31	31	30	30	29	30	28	29	30	29	30	28	29	30	30	30
	UQ																								
	LQ																								
foF1	MED															655									
	CNT															1									
foE	MED							158	247	320	355	378	390	395	385	369	340	296	204						
	CNT							3	29	31	30	30	26	25	27	22	21	21	11						
h'E	MED							165	115	109	105	104	105	100	103	102	108	109	123						
	CNT							3	22	19	10	4	1	2	3	3	1	4	2						
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 16.0 MC IN 4 MINUTES.

MAY, 1959

TABLE 38

PORT LOCKROY (64.8S, 63.5W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	26	24	25	25	25	24	24	26	52	72	96	107	113	110	105	92	87	76	46	38	31	26	26	25
	CNT	21	20	19	19	19	20	20	17	12	18	24	21	21	24	21	21	21	18	22	23	20	17	16	20
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LD																								
h'F	MED	370	360	375	350	355	325	270	280	245	225	225	220	225	225	220	225	220	215	215	235	280	350	360	375
	CNT	23	21	22	23	21	21	19	19	22	26	26	24	24	25	25	24	24	24	24	24	23	25	24	24
	UQ																								
	LQ																								
(M3000)F2	MED	240	240	235	240	240	250	270	285	260	310	320	330	320	325	330	325	325	320	325	300	265	240	230	235
	CNT	19	18	17	17	16	16	16	11	14	19	21	18	19	22	20	20	19	18	1	19	17	16	14	17
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED						110		E 100	130	180	205	225	240	230	210	185	150	110	E 80	110			U 110	U 100
	CNT						1		1	9	11	9	13	17	17	17	20	8	1	1	3			1	1
h'E	MED																								
	CNT																								
foEs	MED	G	G	G	G	G	G	G					12	17	21	26	28	G	G		22	G	G	G	G
	CNT	24	24	24	24	23	23	23	22				22	22	25	24	22	22	25	25	23	24	24	24	25

SWEEP 0.67 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

MAY, 1959

TABLE 39

WILKES STATION (66.9S, 110.5E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 46	U 55	U 63	U 67	U 74	U 82	U 57	U 70	U 74	U 68	U 60	U 58	U 58	U 48	U 47	U 44	U 35	U 44	U 40	U 42	U 39	U 42	U 48	U 38
	CNT	8	11	11	10	8	8	5	5	10	8	6	8	7	7	10	7	9	11	12	14	12	10	8	8
	UD																								
	LD																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	245	260	255	250	260	260	265	265	250	270	U 270	U 270	265	265	U 250	250	E 250	E 240	E 240	E 240	U 240	E 240	E 250	E 260
	CNT	19	18	18	21	20	19	16	19	22	25	26	23	22	20	21	20	23	22	22	22	20	15	15	12
	UD																								
	LQ																								
(M3000)F2	MED		U 290		U 280		U 270	U 280	U 260				U 270		U 255	U 260	U 280	U 280	U 275	U 285	U 280	U 280	U 280	U 280	U 275
	CNT	3	6	4	7	4	5	5	5	2	2	3	5	4	6	7	5	6	8	7	8	7	5	6	6
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	E 100	160	0 190	0 210	0 210	0 215	U 220	U 200	U 170	120	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100
	CNT	11	10	11	12	11	6	5	5	7	7	10	12	15	14	13	14	17	16	13	12	13	13	11	12
h'E	MED	E 100	E		130	135	130	130			E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	CNT	12	5	6	7	11	8	6	4	3	7	10	12	15	14	13	14	17	16	13	12	13	13	12	12
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 OR 30 SECONDS.

MAY, 1959

TABLE 40

WILKES STATION (66.9S, 110.5E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 55	U 57	U 66	U 72	U 78	U 74	U 77	U 84	U 80	U 70	U 68	U 65	U 59	U 54	U 56	U 48	U 44	U 36	U 46	U 42	U 42	U 38	U 41	U 46
	CNT	14	16	14	13	13	15	17	16	13	14	9	9	14	13	13	10	12	8	10	13	12	8	12	13
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	265	255	250	260	250	260	270	270	280	285	275	270	280	265	265	240	240	240	250	240	250	255	270
	CNT	25	27	28	26	27	23	23	25	27	25	28	28	28	28	28	28	30	28	29	27	28	26	25	23
	UQ																								
	LD																								
(M3000)F2	MED	U 280	U 275	U 260	U 250	U 260		U 250	U 265	U 270	U 260	U 235	U 250	U 260	U 260	U 280	U 285					U 270		U 250	U 280
	CNT	8	11	10	6	7	3	7	7	8	11	6	6	10	8	8	5	4	3	3	4	6	3	7	8
	UD																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	U 185	U 225	U 250	U 265	U 270	D 270	D 250	U 250	U 220	U 190	O 140	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100	E 100
	CNT	21	22	24	25	22	17	19	24	20	18	13	12	23	27	28	29	30	29	29	29	29	29	29	23
h'E	MED	140	130	130	125	125	125	125	125	125	135	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	CNT	16	21	26	25	22	18	19	24	20	10	8	15	25	27	28	29	30	29	29	29	28	28	28	25
foEs	MED																								
	CNT																								

SWEEP 1.0 MC TO 25.0 MC IN 15 OR 30 SECONDS.

APRIL, 1959

TABLE 41

PARAMARIBO. SURINAM (5.8N. 55.2W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U	U																				
	CNT	159	133	132	130	136	100	80	64	61	50	71	109	131	144	142	142	141	141	145	148	145	149	150	154
	UQ	9	7	9	9	19	20	22	23	26	27	27	28	28	25	28	26	27	28	28	27	28	27	22	13
	LQ	164	152	135	142	156	122	88	78	64	63	83	118	142	150	151	150	149	150	150	152	151	153	156	161
		131	118	122	120	110	91	66	53	45	45	65	102	126	135	137	142	131	135	139	140	140	137	136	130
h'F2	MED														U	U	U								
	CNT														260	250	360	375	400	400	400	400			
	UQ														2	1	3	11	15	25	15	8			
	LQ																								
h'F	MED	275	225	250	240	225	210	220	220	250	250	260	250	230	235	250	250	250	250	250	235	250	250	290	310
	CNT	28	28	28	28	28	28	28	27	27	28	28	28	28	25	25	23	24	20	23	20	26	27	27	28
	UQ																								
	LQ																								
(M3000)F2	MED	270	270	275	290	310	310	305	295	300	300	300	305	300	300	290	275	265	255	255	255	255	255	260	265
	CNT	9	7	9	9	18	20	22	23	26	27	27	28	28	25	28	26	27	28	28	27	28	27	22	13
	UQ																								
	LQ																								
foF1	MED																U								
	CNT																760	780	780	760	770	780			
																	3	10	13	22	13	5			
foE	MED																U								
	CNT											170	290	360	390	420	420	410	410	400	380	350	290	180	
												20	28	23	22	11	3	6	5	12	16	18	19	7	
h'E	MED											E													
	CNT												100	110	120	120	120	120	120	120	120	110	110	U 140	
												12	22	24	25	20	15	18	18	20	18	15	15	3	
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS.

FEBRUARY. 1959

TABLE 42

HOLLANDIA. NETHERLANDS NEW GUINEA (2.5S. 140.8E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	105	116	135	136	138	140	140	138	136	135	138	139	140	139	132	105	98	95	90	80	72	80	98	109
	CNT	19	20	19	21	18	12	15	15	20	15	10	12	17	20	17	19	20	22	24	23	24	25	26	23
	UQ	130	136	140	140	143	141	141	142	140	140	140	140	142	141	139	122	106	103	95	90	80	90	110	118
	LQ	100	100	133	132	132	134	135	134	131	132	136	138	136	134	106	100	86	84	81	74	56	76	94	100
h'F2	MED	U		U	U	U	U	U	U	U	U														U
	CNT	300		400	400	415	430	490	465	480	475														230
	UQ	1		4	7	4	3	4	4	3	2														1
	LQ																								
h'F	MED	230	U 280	U 285	U 280	U 300		U 240		250	300	350	340	270	240	220	220	230	240	250	225	210	250	230	230
	CNT	7	2	2	1	1		3	10	24	26	26	27	28	28	28	27	27	27	27	27	26	26	26	24
	UQ																								
	LQ																								
(M3000)F2	MED	285	270	265	260	260	255	245	250	240	250	240	260	285	305	310	310	295	295	295	310	315	305	315	295
	CNT	18	19	19	20	17	12	15	15	19	13	10	12	17	19	16	18	18	19	22	23	23	24	26	23
	UQ																								
	LQ																								
foF1	MED	U	U	U	U	770		U	U	U													U		
	CNT	820	850	810	810	5	790	800	740	900													680		
		1	1	2	4		3	6	7	2													1		
foE	MED	400	U 410	U 410			U 390	380	330	280	180												220	310	370
	CNT	14	2	2			3	10	17	15	13												25	25	23
h'E	MED	100		U 100	U 90		U 100	100	100	100													125	100	100
	CNT	17	100	2	1		4	11	14	13													6	24	24
			6																						
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 20.0 MC IN 40 SECONDS.

FEBRUARY. 1959

TABLE 43

HOLLANDIA. NETHERLANDS NEW GUINEA (2.5S. 140.8E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	99	U 96	U 98	U 135	U 139	U 138	U 126	U 134	U 135	U 128	99	99	98	98	99	98	U 98	90	82	71	66	86	98	98
	CNT	5	1	1	1	1	1	3	4	4	3	7	10	14	20	20	21	20	23	19	22	19	21	24	19
	UQ	100						131	137	137	131	100	100	98	100	100	101	102	98	92	83	71	93	99	100
	LQ	98						122	130	132	115	98	98	98	97	98	96	88	73	68	67	52	73	94	97
h'F2	MED							U																	
	CNT							460																	
	UQ							1																	
	LQ																								
h'F	MED	U					U																		
	CNT	225					215		230	250	300	375	350	315	290	285	260	255	245	240	245	225	245	230	215
	UQ	2					1		11	22	24	27	25	26	27	26	25	25	26	25	25	25	24	25	19
	LQ																								
(M3000)F2	MED	250	U 255	U 240	U 260	U 270	U 250	U 255	U 245	U 245	U 250	255	270	260	270	285	295	300	295	295	290	295	305	310	285
	CNT	5	1	1	1	1	1	1	4	4	3	7	10	15	20	20	21	20	23	18	21	19	21	24	19
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED	U						U																	
	CNT	400						360	350	280	180												250	320	390
		3						2	5	15	19												23	21	16
h'E	MED		U 100	U 100			U 100	100	100	100	E												115	100	100
	CNT	100	1	2			1	10	16	16	17												22	22	23
		13																							
foEs	MED																								
	CNT																								

SWEEP 1.8 MC TO 20.0 MC IN 40 SECONDS.

JANUARY. 1959

TABLE 44

EUREKA. CANADA (80.0N. 85.9W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	61	59	58	58	46	47	50	48	48	60	62	70	70	89	72	72	64	68	67	70	70	62	62
	CNT	29	29	27	26	29	24	29	30	24	25	27	29	26	23	25	28	26	28	27	24	27	24	24	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	270	260	270	260	270	270	260	260	270	260	260	260	250	250	250	250	260	270	270	260	260	260	270
	CNT	31	31	31	31	31	31	30	31	31	31	31	31	31	31	31	30	31	31	31	31	31	29	30	30
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 20.0 MC IN 15 SECONDS.

DECEMBER. 1957

TABLE 45

SVALBARQ. NORWAY (78.2N. 15.7E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	43	44	44	45	44	42	42	44	46	47	52	42	44	44	48	43	48	48	47	62	69	71	68	65
	CNT	12	10	16	14	15	18	16	15	10	12	10	12	10	14	9	12	12	9	10	8	9	10	5	14
	UQ	56	52	47	48	51	46	46	47	56	58	66	47	45	47	64	47	52	56	55	72	82	105	74	69
	LQ	43	42	42	43	31	36	38	40	43	43	44	40	40	42	40	42	46	44	42	49	49	48	40	45
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	280	310	295	345	370	300	310	295	300	300	300	295	325	275	265	290	265	280	260	260	265	260	265
	CNT	29	28	22	25	20	23	19	21	25	20	29	25	21	21	23	26	24	27	30	29	29	31	31	31
	UQ	300	320	360	345	410	390	350	400	340	320	320	330	330	345	290	290	340	300	300	290	280	280	290	305
	LQ	250	260	260	260	275	280	280	275	280	270	280	260	270	270	260	260	260	250	255	250	240	250	240	250
(M3000)F2	MED	235			240	210	220		215		250	270	245	260	255		260								230
	CNT	7	2	3	7	6	11	4	5	2	6	5	5	5	11	3	8	4	4	5	4	3	3	2	5
	UQ	280			265	210	235		260		260	275	260	270	270		275			255					250
	LQ	220			210		200		210		245	260	230	250	235		240			225					225
foF1	MED																								
	CNT																								
foE	MEQ									145	170		170	130		185	190								
	CNT	2	2	2	3	3	4	4	2	6	5	3	6	8	4	7	6	4	2	2	1		1		
h'E	MED							120	120		120	120	125	125	130	130	130	130	135						
	CNT		2	2	1	2	4	7	6	3	8	8	10	11	10	12	10	9	5	2	1				
foEs	MEQ	14	32	32	23	28	31	32	26	30	32	32	32	33	32	33	32	39	32	33	26	33	21	20	18
	CNT	21	22	26	26	24	26	25	23	28	28	27	30	29	25	29	30	29	28	28	24	25	23	24	22

SWEEP 0.68 MC TO 24.6 MC IN 5 MINUTES. AUTOMATIC OPERATION.

DECEMBER. 1957

TABLE 46

DOURBES. BELGIUM (50.1N. 4.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	50	48	46	44	40	37	35	56	U 98	U 131	U 142	U 150	143	U 146	U 142	U 134	U 124	U 106	U 87	76	58	54	U 50	52
	CNT	19	27	27	27	27	27	27	28	18	22	22	23	27	24	25	24	24	16	23	23	24	9	10	6
	UQ	57	53	50	46	44	44	43	60	104	137	150	155	151	149	150	144	132	110	99	81	65	56	53	55
	LQ	45	45	41	40	37	34	32	53	93	129	136	143	138	139	132	126	116	96	80	63	55	52	49	48
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	295	315	300	290	270	U 250	U 265	240	220	225	215	220	220	225	225	225	220	215	220	230	250	280	U 275	U 320
	CNT	25	27	27	26	20	21	21	25	20	22	22	24	30	28	28	27	29	25	28	23	22	9	12	11
	UQ	330	330	330	320	285	290	285	250	230	230	220	225	230	230	230	230	230	225	230	240	275	290	300	330
	LQ	280	275	275	265	255	240	250	230	210	215	215	220	215	220	220	220	210	205	210	215	225	260	260	285
(M3000)F2	MEQ	250	240	250	250	255	260	265	275	U 295	U 310	300	U 300	U 295	U 290	U 290	U 290	U 285	U 285	280	280	270	255	U 260	240
	CNT	18	27	27	27	26	27	27	28	14	22	21	21	25	25	25	23	20	15	19	19	22	9	8	5
	UQ	260	250	255	270	265	275	275	290	310	315	310	305	300	295	295	300	300	300	290	290	290	270	270	260
	LQ	240	235	235	240	245	245	255	260	290	300	290	290	285	275	280	275	280	275	270	265	250	250	250	230
foF1	MEQ																								
	CNT																								
foE	MED								E 160	235	280	300	315	320	310	280	235	E 160							
	CNT								27	13	12	15	14	24	22	24	19	20							
h'E	MED									117	117	115	115	115	117	115	119								
	CNT									12	13	14	13	19	21	17	7								
foEs	MED	E 13	E	E	E	E 13	E 16	E 16	E 16	24	30	34	36	34	34	30	25	E 16	E 16	E 16	E 16	E 16	E 16	E 16	E 16
	CNT	25	27	27	27	27	27	27	28	6	8	10	11	10	13	14	16	25	28	28	16	17	9	15	11

SWEEP 1.0 MC TO 20.0 MC IN 3 MINUTES.

DECEMBER. 1957

TABLE 47

FREIBURG. GERMANY (48.1N. 7.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	54	52	50	47	42	41	39	72	112	142	147	148	U 145	144	142	133	124	104	87	72	61	59	56	53
	CNT	30	31	30	31	29	31	30	29	30	30	28	28	27	27	30	29	30	30	30	31	31	31	30	31
	UQ	59	55	53	52	48	45	46	78	116	146	153	155	150	149	148	143	130	110	98	78	64	62	58	59
	LQ	48	48	45	40	39	36	37	68	107	134	137	140	138	138	134	121	110	100	80	67	55	55	53	49
h'F2	MED									260							305								
	CNT									1							1								
	UQ																								
	LQ																								
h'F	MED	E 305	E 305	302	282	280	260	260	240	220	225	U 220	220	225	230	230	230	228	220	225	240	245	280	280	295
	CNT	30	30	28	30	29	27	26	31	31	30	29	28	29	29	30	29	30	30	30	31	27	28	26	25
	UQ																								
	LQ																								
(M3000)F2	MEQ	242	240	245	250	255	250	260	280	295	295	U 290	285	275	275	272	275	275	280	275	275	255	245	245	240
	CNT	30	31	29	29	27	31	30	29	30	30	28	27	25	27	30	28	30	29	30	31	31	31	30	31
	UQ	255	250	255	265	265	265	275	290	305	300	298	290	282	280	280	290	280	282	280	280	270	255	255	250
	LQ	225	230	232	238	235	240	250	268	290	290	282	270	262	265	270	265	265	265	265	265	240	235	235	230
foF1	MEQ																								
	CNT																								
foE	MEQ								E																
	CNT								25	225	280	310	325	325	310	280	225	130							
										27	29	27	27	28	27	27	23	11							
h'E	MED								E	120	113	111	111	111	113	115	122	E							
	CNT								21	10	11	13	15	13	8	11	6	12							
foEs	MEQ	E	E	E	E	E	E	E	E													E	E	E	E
	CNT	30	30	31	31	31	31	31	31	24 31	32 30	34 29	35 29	34 28	35 28	30 30	27 30	19 30	22 30	24 30	16 31	31	31	31	30

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

DECEMBER. 1957

TABLE 48

OELHI. INDIA (28.6N. 77.2E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	80	78	Q 68	48	47	44	59	113	139	145	140	140	139	136	138	140	140	134	Q 127	Q 119	Q 117	D 110	94	84
	CNT	21	16	6	13	22	27	28	17	23	23	21	23	25	30	29	24	24	26	29	28	26	29	23	26
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	270	285		290	260	260	275	305	305	295	270	260	250	245	250	250	260	260	270	U 270	U 275	U 280	270	275
	CNT	12	11	1	10	15	17	21	15	21	16	14	17	15	24	23	19	16	14	10	8	7	5	14	16
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MED								270	300	340	380	380	380	380	390	380	340							
	CNT								5	10	9	14	12	11	15	15	15	8	4	1					
h'E	MED								120	120	100	100	120	100	100	100	100	100							
	CNT								5	10	9	14	12	11	15	16	13	8	4	1					
foEs	MEQ										45						46		30	32					
	CNT					1	1	2	3	3	9	2	2	2	3	2	5	3	5	5	3	1			

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

DECEMBER. 1957

TABLE 49

AHMEDABAD, INDIA (23.0N, 72.6E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	134	119	106	86	67	63	66	103	144	153	146	145	145	147	150	152	153	153	153	155	U	U		
	CNT	27	29	28	28	27	24	22	26	23	27	28	29	29	26	25	25	27	23	27	25	160	162	158	142
	UQ																					17	12	23	28
	LQ																								
h'F2	MED										250	280	360	380	405	400	385	350	290						
	CNT										28	25	27	29	25	24	26	24	26						
	UQ																								
	LQ																								
h'F	MED	250	250	235	225	230	260	265	275	250	250	235	230	230	235	240	245	250	275	275	300	290	250	230	230
	CNT	29	29	29	29	28	28	24	27	26	19	12	17	18	14	17	14	16	25	29	29	29	28	30	30
	UQ																								
	LQ																								
(M3000)F2	MED	270	285	295	285	280	260	270	280	290	280	265	250	245	240	240	240	240	245	250	245	U			
	CNT	27	27	27	27	25	21	23	25	24	28	28	28	29	26	25	25	26	24	28	28	255	270	275	270
	UQ																					27	22	25	27
	LQ																								
foF1	MED													670	660	650	650	600	520						
	CNT									1		1	2	9	11	14	16	15	10						
foE	MED								180	280	350	380	400	410	410	390	370	305	210						
	CNT								7	22	16	14	14	17	16	13	13	23	17						
h'E	MED									110	107	105	105	105	105	105	107	110	130						
	CNT								2	21	24	24	19	20	20	20	21	20	10						
foEs	MED	E	E	E	E	E	E	E																	
	CNT	29	30	29	29	28	27	27	18	28	35	38	40	41	41	39	37	30	23	25	23	15	17	13	13
									26	23	29	26	24	26	21	24	26	25	25	30	29	29	28	29	30

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION. DECEMBER, 1957

TABLE 50

CALCUTTA, INDIA (23.0N, 88.6E) TIME 90.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D	D	D	D	D	D	D		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	CNT	120	100	87	70	58	44	52	105																128
	UQ	21	23	23	23	22	21	22	17	23	23	21	21	21	21	23	23	22	23	24	25	25	25	22	22
	LQ																								
h'F2	MED											U													
	CNT										1	400	420	430	450	450	450	4							
	UQ											6	16	20	20	20	18								
	LQ																								
h'F	MED	240	240	240	220	250	250	280	290	250	250	250	250	250	250	250	250	250	270	280	300	270	250	220	220
	CNT	23	23	23	23	22	22	22	23	23	22	20	19	17	19	20	19	19	23	25	24	25	25	25	24
	UQ																								
	LQ																								
(M3000)F2	MED		U	U	U	U	U	U																	
	CNT	4	340	340	340	340	340	330	330	4	2					1	1							2	1
	UQ		7	8	6	8	7	9	11																
	LQ																								
foF1	MED																U								
	CNT										1	850	800	790	780	750	720	2							
	UQ											6	16	20	20	20	16								
	LQ																								
foE	MED								U	310	D	D	D	O	O	D	D	D							
	CNT							2	250	19	330	340	340	340	330	340	320	310	250	4					
	UQ								23		23	17	15	13	16	16	18	20	14						
	LQ																								
h'E	MED								E	115	110	110	110	110	100	100	110	100	100						
	CNT							3	140	20	19	13	13	11	15	15	19	19	10	3					
	UQ								18																
	LQ																								
foEs	MED	E	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	G	G	G	E	E	E	E	
	CNT	23	23	23	23	22	22	22	23	23	23	18	16	13	17	18	21	22	23	25	25	25	25	24	25

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. DECEMBER, 1957

TABLE 51

BOMBAY, INDIA (19.0N, 72.8E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED							U				D	D	D	O	D	D	D							
	CNT							73	91	108	122	129	135	140	141	138	137	135	133						
	UQ							6	27	15	22	20	16	16	17	22	18	13	14						
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED											U					U								
	CNT							4	310	290	290	270	2	2	1	3	230	3	1						
	UQ								21	19	13	5					5								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION. DECEMBER, 1957

TABLE 52

MADRAS, INDIA (13.1N, 80.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED									137	142	142	138	135	130	132	125	120	120	115					
	CNT	30	26	27	22	18	26	26	25	24	25	24	25	28	11	21	23	25	17	22	26	16	21	22	29
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED								U							U	U	U	U						
	CNT			2	2	3	3	4	260	250	225	220	205	200		200	200	200	210					2	2
	UQ								6	10	12	16	13	20	4	9	8	8	5	4					
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION. DECEMBER, 1957

TABLE 53

TIRUCHY, INDIA (10.8N, 78.7E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 101	U 97	U 102	U 102	93	80	90	111	122	122	122	122	121	120	120	117	115	110	104	95	U 98	U 107	U 104	O 101
	CNT	8	5	9	9	14	19	17	30	25	17	28	29	29	27	25	30	22	27	20	19	8	7	8	10
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED				U 260	290	300	275	260	250	U 235	U 220	U 205	200	200	190	190	195	200	200	U 200	U 210			
	CNT	4	3	4	5	10	12	15	18	11	5	6	9	14	16	15	17	12	16	12	8	6	2	1	4
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION. DECEMBER, 1957

TABLE 54

KODAIKANAL, INDIA (10.2N, 77.5E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	99	U 92	U 96	92	90	83	86	108	122	128	128	125	124	120	120	114	110	U 107	U 100	90	86	86	U 89	U 94
	CNT	16	21	14	19	22	23	24	28	31	30	28	27	28	29	29	29	30	31	30	27	19	16	15	18
	UQ																								
	LQ																								
h'F2	MED												1	2	2										
	CNT																								
	UQ																								
	LQ																								
h'F	MED	295	290	285	260	250	240	290	260	245	235	230	225	220	220	225	240	260	295	370	460	440	400	360	330
	CNT	29	30	31	31	30	31	31	31	31	30	27	27	28	28	29	29	30	31	31	29	21	28	30	30
	UQ																								
	LQ																								
(M3000)F2	MED	250	U 250	U 265	270	290	300	275	260	240	230	210	205	200	200	195	195	195	200	200	190	195	210	220	230
	CNT	16	21	14	19	22	23	24	28	31	30	28	27	28	29	29	29	30	31	30	27	19	16	15	18
	UQ																								
	LQ																								
foF1	MED													2	2										
	CNT																								
foE	MED								280	350	390			1	1		1	1	250						
	CNT								16	8	6	3	2						5						
h'E	MED								110	105	110	110	110	2	3	3	105	110	120						
	CNT								25	22	13	7	5				5	19	9						
foEs	MED								70	90	104	110	112	114	116	112	112	88	72					32	31
	CNT	4	32 6	38 5	4	2	1	4	31	31	29	27	26	27	28	29	29	30	20				1	6	5

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS. DECEMBER, 1957

TABLE 55

TRIVANDRUM, INDIA (8.5N, 77.0E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 100	O 102	D 100	O 98	92	80	90	106	119	128	128	126	125	120	119	116	100	D 102	D 100	O 90	U 90	92	U 88	U 91
	CNT	8	13	13	12	10	4	20	22	24	23	24	29	29	26	28	28	23	30	30	15	9	11	8	9
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						U 280	270	U 265	250	230	220	205	205	205	195	U 190	U 190	U 190						
	CNT	1	2	1	1	1	6	13	9	16	17	17	22	20	19	21	9	8	6	4	3	3	1	3	2
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED									D 80	O 100	D 100	D 100	O 100	O 100	O 100	O 95	D 76	65						
	CNT									9	16	18	23	27	28	29	26	22	9		1				

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION. DECEMBER, 1957

TABLE 56

LWIRO, CONGO (2.3S, 28.8E) TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 98	O 100	D 100	E 109	92	77	80	98	102	E 109	O 100	U 115	U 122	U 128	E 132	E 129	O 100	D 107	D 100	D 100	O 100	O 98	O 94	O 96
	CNT	27	27	25	22	20	19	19	18	15	14	16	15	17	15	21	23	23	26	28	25	26	26	27	26
	UQ				109		86	86	100	107	106	113	119	126	132	130	125		129						
	LQ					84	72	76	95						125										
h'F2	MED								1	1		2	555	560	535	515	525	520							
	CNT												9	15	15	20	19	16	1						
	UQ												595	590	565	540	565	557							
	LQ												467	500	490	497	495	485							
h'F	MED	280	297	282	255	245	240	275	250	240	235	220	U 235	U 230	230	230	230	250	275	325	402	397	330	275	275
	CNT	26	26	24	22	21	20	19	17	14	13	15	6	9	10	15	19	22	24	27	24	26	26	26	25
	UQ	315	310	300	275	260	252	290	257	245	247	240	240	237	230	240	245	250	280	330	417	425	365	310	290
	LQ	270	280	267	240	230	235	270	245	235	230	215	215	205	220	220	225	240	265	310	387	375	310	265	237
(M3000)F2	MED		U 241	U 250	260	258	273	272	270	266	U 222	U 213	204	205	208	215	205	207	210	U 205	U 210				U 239
	CNT	4	5	9	16	15	18	18	15	12	7	7	10	12	12	14	13	10	11	8	7	2	3	2	5
	UQ				274	288	289	294	289					216	221	225	219	210	212	211					
	LQ			245	254	249	258	264	262	239	219	206	200	203	204	210	202	205	202	204					
foF1	MED																	2							
	CNT																								
foE	MED							190	300	360	400	430	450	455	450	430	400	365	300	175					
	CNT							8	15	12	12	11	11	10	12	13	18	17	20	5					
h'E	MED							3	119	111	3	111	2	1	2	7	111	113	117						
	CNT								8	7		6					5	14	14						
foEs	MED	14	16	E 25	E 23	E 22	16	17	30	G 14	G 12	G 15	G 12	G 14	G 14	G 16	G 22	G 22	31	25	21	19	19	17	17
	CNT	27	27				21	20	17										26	28	25	27	27	27	26

SWEEP 1.25 MC TO 25.0 MC IN 10 MINUTES. AUTOMATIC OPERATION. DECEMBER, 1957

TABLE 57

TUCUMAN, ARGENTINA (26.9S, 65.4W) TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	92	88	76	72	66	65	80	95	105	112	120	128	131	132	134	137	136	132	131	130	127	110	101	100
	CNT	22	24	25	25	25	27	28	27	28	26	27	28	28	29	27	28	29	29	28	29	26	23	23	24
	UQ																								
	LQ																								
h'F2	MED										530	510	500	505	515	510	505	490	485	490	U 580				
	CNT										7	18	26	27	29	27	28	28	25	7	1				
	UQ																								
	LQ																								
h'F	MED	400	370	370	360	350	350	270	240	225	220	225	210	U 205	U 215	U 210	225	230	245	270	315	405	470	440	440
	CNT	28	28	26	27	24	24	27	25	26	18	12	9	5	4	4	11	21	22	21	21	21	24	26	27
	UQ																								
	LQ																								
(M3000)F2	MED	220	220	220	215	225	220	250	240	225	U 220	U 220	220	220	220	220	220	220	U 220	U 220	U 215	U 205	210	210	205
	CNT	21	23	24	25	25	26	28	24	17	19	18	24	24	22	24	23	26	23	21	16	17	14	20	17
	UQ																								
	LQ																								
foF1	MED									680	710	700	700	690	670	640	640	610	610						
	CNT									6	19	22	16	17	13	9	13	18	15						
foE	MED						U												U		U				
	CNT						150	260	330										350	290	210				
							3	19	13										3	7	4				
h'E	MED						U					U				U	U								
	CNT						119	109	103	101	100	101				99	101	101	101	102					
							3	14	14	16	12	2				1	2	13	20	16					
foEs	MED	47	40	40	40	28	30	29	37	43	44	61	60	60	58	60	52	G	44	36	35	45	33	42	41
	CNT	20	16	16	17	18	20	28	27	26	14	8	7	8	9	7	8	21	26	28	27	22	21	18	19

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS. DECEMBER, 1957

TABLE 58

EUREKA, CANADA (80.0N, 85.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	61	62	62	61	60	58	54	55	51	63	66	62	68	81	75	87	81	76	70	70	70	64	69	64
	CNT	28	26	28	29	28	29	28	27	27	26	25	27	28	28	27	26	29	28	27	28	27	26	27	26
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	280	260	260	280	270	270	260	260	260	270	250	260	260	250	250	250	270	270	280	260	270	270	260	270
	CNT	30	30	30	30	30	30	28	29	30	30	29	30	30	30	30	30	30	30	30	30	30	29	30	29
	UQ																								
	LQ																								
(M3000)F2	MEO																								
	CNT																								
	UQ																								
	LQ																								
foF1	MEO																								
	CNT																								
foE	MEO																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. NOVEMBER, 1957

TABLE 59

SVALBARD, NORWAY (78.2N, 15.7E) TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	46	50	47	47	47	58	45	44	50	70	67	66	66	59	58	60	59	52	60	66	66	64	56	57
	CNT	13	16	18	15	21	22	15	17	16	14	11	12	14	12	16	16	9	8	11	15	10	8	10	15
	UQ	67	62	66	64	62	67	56	54	67	97	95	71	76	68	67	66	66	62	70	71	69	74	72	67
	LQ	42	44	40	43	40	42	40	42	44	31	48	56	61	50	45	45	42	44	45	56	58	56	48	47
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	270	280	340	310	355	330	300	330	310	295	290	280	280	270	290	260	280	270	275	260	260	260	275	260
	CNT	26	26	26	21	23	24	20	25	26	27	27	26	21	27	26	29	26	28	26	26	28	28	27	28
	UO	290	325	400	430	450	410	350	365	355	325	310	315	300	300	310	320	335	310	310	295	300	290	295	295
	LO	240	250	280	280	285	310	290	275	290	285	265	260	245	250	260	245	250	250	255	250	250	240	245	245
(M3000)F2	MEO	245	235	220	220	220	220	240	220	235	255			260	270	265	260	245				250		250	260
	CNT	7	11	5	9	10	9	8	8	6	9	4	3	6	8	11	10	5	3	2	4	6	2	8	5
	UQ	260	255	230	235	240	240	260	250	260	270			235	270	280	285	290				260		260	280
	LQ	215	225	210	205	200		215	215	210	230			245	240	250	240	220				235		240	250
foF1	MEO																								
	CNT																								
foE	MED						225	205		205	180	140	150	160		215	195								
	CNT	1	2	3	3	4	5	6	3	5	8	6	6	7	3	9	7	2		1			1		3
h'E	MEO									130	125	130	130	130	130	130	130	135							
	CNT	1	1	1	1	1	3	4	4	5	7	7	6	9	8	11	9	6	1	1			1		3
foEs	MEO	30	31	30	29	29	30	31	31	32	32	32	32	33	33	32	38	55	38	31	34	32	29	32	32
	CNT	20	26	25	24	26	24	26	26	28	26	28	27	27	25	28	26	25	27	24	24	20	22	19	18

SWEEP 0.68 MC TO 24.6 MC IN 5 MINUTES, AUTOMATIC OPERATION. NOVEMBER, 1957

TABLE 60

FROBISHER BAY, CANADA (63.8N, 68.6W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	59	58	53	48	49	46	48	50	59	76	100	112	112	81	84	84	72	73	64	61	64	66	58	57
	CNT	18	19	19	18	18	18	19	18	21	21	22	24	20	19	21	20	21	19	22	24	23	22	26	20
	UO																								
	LO																								
h'F2	MEO																								
	CNT																								
	UO																								
	LO																								
h'F	MED	280	300	300	340	300	300	300	300	290	280	270	270	260	270	270	280	260	260	270	270	270	280	290	280
	CNT	22	20	18	22	18	17	18	16	20	20	23	23	23	23	24	24	22	22	16	24	23	22	24	24
	UO																								
	LO																								
(M3000)F2	MED																								
	CNT																								
	UO																								
	LO																								
foF1	MEO																								
	CNT																								
foE	MED									U 200	U 230	240	270	260	260	240	240	200	U 200						
	CNT						2	3	2	3	6	9	13	11	10	11	14	15	14	8	3				
h'E	MED								2	1	1	2	3	4	110	110	110	120	130						
	CNT														7	5	8	7	5	2	1				
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. NOVEMBER, 1957

TABLE 61

FREIBURG, GERMANY (48.1N, 7.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	62	59	59	57	52	46	57	96	127	147	U 154	U 151	148	U 146	U 140	U 136	U 131	116	102	82	72	67	68	64
	CNT	29	29	29	29	30	30	29	30	29	25	24	24	23	28	27	29	28	30	29	30	30	30	30	30
	UQ	66	64	62	60	56	51	64	105	139	152	158	155	154	154	148	142	136	120	104	87	80	75	71	69
	LQ	58	57	56	52	48	43	50	87	123	142	146	146	143	140	134	130	122	109	91	78	68	64	64	61
h'F2	MED														290										
	CNT														1										
	UQ																								
	LQ																								
h'F	MED	288	298	292	270	258	240	240	230	225	220	220	225	220	230	230	230	230	230	230	230	245	260	278	290
	CNT	28	28	28	29	28	24	27	30	29	29	29	28	27	29	29	30	29	30	30	29	27	27	28	28
	UQ																								
	LQ																								
(M3000)F2	MED	240	240	245	250	260	252	260	290	295	290	U 285	U 280	U 270	U 270	U 275	U 275	U 275	272	275	272	260	255	252	250
	CNT	29	29	29	29	29	30	29	29	29	24	23	24	25	28	27	27	27	30	29	30	30	30	30	29
	UQ	262	260	260	272	288	270	270	305	300	300	290	285	275	272	280	280	280	280	280	285	270	265	260	260
	LQ	230	230	230	240	240	240	245	280	290	282	275	275	262	262	265	270	265	270	270	260	250	240	240	232
foF1	MED																				J 150				
	CNT																				1				
foE	MED							E	205	265	305	330	340	338	320	290	240	E 165							
	CNT							28	25	26	27	29	29	28	30	29	25	3							
h'E	MED							E	143	111	109	107	107	107	109	111	116	E							
	CNT							27	9	17	14	14	13	17	10	13	16	2							
foEs	MED	E	E	E	E	E	E	E	G	G	G	G	G	G	G	G	25	20	20	19	17	E	E	E	E
	CNT	30	30	30	30	30	30	30	30	29	30	28	29	28	30	29	30	29	30	30	30	30	30	30	30

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

NOVEMBER, 1957

TABLE 62

DELHI, INDIA (28.6N, 77.2E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	79	70	U 61	59	58	56	72	122	144	150	153	158	155	154	156	152	150	147	142	135	129	110	93	87
	CNT	25	22	6	16	25	24	28	29	26	25	23	20	25	26	23	26	29	25	25	49	21	22	28	27
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	U 265	U 240		U 270	270	270	285	310	310	U 295	U 275	U 270	U 270	U 255		U 255							U 270	U 270
	CNT	6	6	2	5	12	11	17	13	15	8	9	8	6	5	4	5	2	3	1	4	4	3	8	8
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							320	340	380	420	420	440	420	400	400	400	390	350	300					
	CNT							7	12	20	22	22	19	18	17	16	16	20	18	7					
h'E	MED							100	100	100	100	100	100							100	100	100	U 100		
	CNT							6	13	23	23	24	20							7	10	9	6		
foEs	MED																U 46	U 44	U 50	38	30	30	U 40	U 31	
	CNT																3	4	4	7	10	9	5	4	

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

NOVEMBER, 1957

TABLE 63

AHMEDABAD, INDIA (23.0N, 72.6E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	131	122	108	93	73	63	76	123	149	157	160	168	170	169	170	170	170	170	170	176	174	170	159	145
	CNT	23	23	22	23	22	21	19	19	21	21	22	26	27	26	28	27	28	28	24	23	19	19	22	23
	UQ																								
	LQ																								
h'F2	MED									250	250	330	390	400	410	420	400	360	275						
	CNT									22	21	22	25	30	27	28	26	25	25						
	UQ																								
	LQ																								
h'F	MED	250	250	245	230	230	250	275	260	250	235	230	225	230	230	235	250	250	265	275	305	280	250	240	245
	CNT	23	23	23	24	24	23	21	20	20	20	17	17	20	20	20	21	24	26	26	26	24	25	24	24
	UQ																								
	LQ																								
(M3000)F2	MED	270	280	280	300	300	280	275	295	285	275	255	240	240	235	235	235	240	240	240	240	250	260	260	265
	CNT	22	21	20	21	19	20	18	19	21	22	23	26	29	27	26	26	28	28	24	25	24	25	23	22
	UQ																								
	LQ																								
foF1	MED																								
	CNT												4	660	660	650	640	600	520						
														5	6	8	7	11	9						
foE	MED								210	310	360	390	410	420	410	390	360	300	220						
	CNT								16	22	21	13	14	16	16	18	19	23	24						
h'E	MED								120	110	105	105	105	105	105	105	110	112	125						
	CNT								12	22	21	18	15	13	12	19	19	21	13						
foEs	MED	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	G	G	26	25	25	E	E	E	E
	CNT	23	23	24	24	25	24	22	20	22	22	22	23	24	22	24	27	26	27	27	26	24	25	25	25

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES. AUTOMATIC OPERATION.

NOVEMBER, 1957

TABLE 64

CALCUTTA, INDIA (23.0N, 88.6E)

TIME 90.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D							D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	CNT	20	120 19	108 14	88 16	71 18	67 18	80 21	125 22	23	23	23	22	24	26	22	23	24	24	25	25	25	25	25	25
	UQ																								
	LQ																								
h'F2	MED											U													
	CNT										1	400 11	425 17	450 23	455 24	450 19	450 14	4	1						
	UQ																								
	LQ																								
h'F	MED	250 25	250 25	250 23	250 23	250 23	245 23	290 23	250 23	250 22	250 23	250 21	250 18	250 18	245 21	250 21	250 22	250 23	240 22	300 25	300 25	275 25	250 25	245 25	250 25
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	330	U 350	350	350	350	340	330	340																
	CNT	10	16	16	16	15	16	18	13															1	3
	UQ																								
	LQ																								
foF1	MED											U 880 14	U 900 18	U 910 22	U 900 25	U 880 19	780 13	U 800 3							
	CNT										1														
foE	MED							U 160 8	270 23	330 23	370 14	0 370 22	D 370 21	D 380 21	D 360 24	D 350 21	350 20	300 20	220 10						
	CNT																								
h'E	MED							E 190 8	120 22	120 21	110 22	110 21	110 20	110 22	100 25	105 21	110 21	110 19	110 9						
	CNT																								
foEs	MED	E	E	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	E	E	E	E	E	E	E
	CNT	25	25	23	23	23	23	23	23	23	23	23	22	23	25	22	23	23	23	25	25	25	25	25	25

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS.

NOVEMBER, 1957

TABLE 65

BOMBAY, INDIA (19.0N, 72.8E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	U 112	U 112	U 95	U 96		U 72	77	98	118	124	142	140	142	142	139	140	138	132	U 128					U 117
	CNT	5	6	6	8	4	6	14	16	16	16	14	13	15	13	15	15	13	11	5	4	2	2	4	8
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ							U 300	U 290	U 280	U 280														
	CNT	1	1	1	1	1	1	6	9	7	8	2	2		1	3	4	4	4	1	1	1	2	1	1
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

NOVEMBER, 1957

TABLE 66

MADRAS, INDIA (13.1N, 80.3E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	130	118	117	100	86	74	95	130	138	144	138	135	135	136	135	136	130	124	117	120	118	123	127	130
	CNT	29	29	21	23	18	21	26	26	29	30	30	28	28	16	21	29	27	20	25	24	18	23	21	24
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ							U 290	265	U 255	230	215	205	205	U 205	200	210	U 200							
	CNT	2	2	1	1	2	4	6	13	9	12	15	13	16	9	10	10	5	1	4	3	1	1		
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ							320	380	380	380	400	400	410		380	400	360	U 300						
	CNT							8	11	16	18	11	10	7	2	9	8	7	4						
h'E	MEQ							100	120	120	120	120	120	120		120	120	140	U 120						
	CNT							8	11	17	18	10	11	7	2	10	7	6	3		2				
foEs	MEQ	34	36	U 29	U 44		U 37	28	38	50	52	50	52	54		U 44	50	51	46	38	50	32	38	36	37
	CNT	10	6	4	4	2	3	9	10	13	9	11	6	5	2	4	12	14	9	8	5	6	10	11	6

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

NOVEMBER, 1957

TABLE 67

TIRUCHY, INDIA (10.8N, 78.7E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	115	115	114	107	90	70	95	116	118	120	120	118	117	118	118	117	116	114	114	115	119	U 114	116	115
	CNT	21	16	13	19	21	22	21	24	26	24	25	28	29	28	28	26	23	24	25	21	17	18	14	19
	UQ																								
	LQ																								
h'F2	MEQ																								
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MEQ	U 250	U 255	U 260	285	295	300	280	260	260	U 250	U 230	205	200	205	200	U 200	U 200	U			U 210		U 240	U 240
	CNT	6	6	6	13	19	18	18	11	12	9	8	10	13	11	10	7	5	8	11	10	7		5	6
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MEQ																								
	CNT																								
h'E	MEQ																								
	CNT																								
foEs	MEQ																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

NOVEMBER, 1957

TABLE 68

KODAIKANAL, INDIA (10.2N, 77.5E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MEQ	119	120	112	106	92	75	88	118	131	137	134	129	126	126	126	122	123	118	U 114	U 107	U 108	U 116	U 118	123
	CNT	24	23	23	26	26	25	27	29	28	25	27	25	25	27	26	25	30	30	30	29	24	21	23	23
	UQ																								
	LQ																								
h'F2	MEQ											1	2	2	2	2									
	CNT																								
	UQ																								
	LQ																								
h'F	MEQ	280	265	260	240	240	235	300	260	245	240	230	230	225	230	235	245	260	300	395	460	400	350	305	290
	CNT	30	28	28	29	29	29	29	29	27	26	27	23	23	26	26	25	30	30	30	29	27	30	30	30
	UQ																								
	LQ																								
(M3000)F2	MEQ	250	265	275	285	300	300	275	255	235	220	210	200	200	200	200	200	200	200	U 200	195	U 200	U 210	220	240
	CNT	24	23	23	26	26	25	27	29	28	25	27	25	25	26	26	25	30	30	30	29	24	20	23	23
	UQ																								
	LQ																								
foF1	MEQ																								
	CNT																								
foE	MED								300	340								310							
	CNT							2	15	9	2		1	1			2	6	3						
h'E	MEQ								115	110	110				105	110	110	115							
	CNT							2	21	15	12	3	3	3	7	8	14	20	3						
foEs	MEQ	30						23	78	107	109	120	120	120	116	116	110	86							
	CNT	5	4	2	1	1		7	29	28	26	27	25	25	27	26	25	30	4	1		2	34 6	4	3

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

NOVEMBER, 1957

TABLE 69

TRIVANDRUM, INDIA (8.5N, 77.0E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	0	D	D	0	0			0									0	0	0	D	U	D	0	D
	CNT	113	112	112	110	102	87	97	115	132	136	134	130	128	128	126	128	120	114	110	101	100	107	113	113
	UQ	18	20	20	19	20	19	23	30	30	29	30	30	29	29	29	25	30	30	30	13	9	14	15	19
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED						U		U																
	CNT	1	1			3	310	295	260	245	225	215	210	205	200	200	200	1	4	2				1	
	UQ						6	15	6	21	22	26	23	25	23	23	11								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

NOVEMBER, 1957

TABLE 70

TUCUMAN, ARGENTINA (26.9S, 65.4W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U	U	U										U	U	U	U	U	U					U	U
	CNT	136	133	121	102	89	74	90	108	118	126	132	138	140	142	142	143	142	142	142	139	141	140	140	140
	UQ	19	23	25	24	27	27	30	22	30	28	27	26	26	27	28	28	29	29	28	28	24	19	19	19
	LQ																								
h'F2	MED									U		U													
	CNT									435		490	490	495	515	520	500	500	495						
	UQ									1		1	10	23	23	27	26	22	12						
	LQ																								
h'F	MED	350	310	290	290	270	295	270	250	235	230	225	220	225	230	220	230	240	260	290	340	465	455	425	390
	CNT	29	29	30	29	29	27	30	21	30	20	18	13	7	12	12	12	16	21	23	20	23	25	27	28
	UQ																								
	LQ																								
(M3000)F2	MED	U	U	U					U	U				U	U	U	U	U	U	U	U	U	U	U	U
	CNT	245	260	255	250	235	230	255	260	240	230	230	225	225	220	225	225	225	225	220	210	205	210	215	230
	UQ	15	20	24	24	27	27	29	21	27	26	26	25	23	22	22	20	21	18	16	13	13	10	13	13
	LQ																								
foF1	MED									730	700	740	710	720	700	690	670	640	640						
	CNT									3	7	14	15	21	20	22	19	14	6						
foE	MED						U		U		U	U													
	CNT					140	145	255	320	370	400	430						380	315	260					
	UQ					1	2	24	9	6	1	2						1	8	10					
	LQ																								
h'E	MED					U	U						U	U	U	U									
	CNT					185	215	115	103	103	101	103	105	103	105	107	105	107	103	110					
	UQ					1	3	19	13	24	17	13	3	3	1	2	10	15	12	8					
	LQ																								
foEs	MED							G		G	G	G	G				G	G							
	CNT	34	30	31	24	25	30	30	32	28	23	18	7	50	52	51	14	23	36	33	40	38	35	38	29
	UQ	12	10	4	10	9	13		20					5	5	5			28	26	20	19	16	17	11
	LQ																								

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

NOVEMBER, 1957

TABLE 71

EUREKA, CANADA (80.0N, 85.9W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	60	58	54	55	58	56	59	60	66	72	79	80	86	87	90	80	78	80	72	71	71	69	61	65
	CNT	24	25	26	27	30	31	29	31	30	31	30	30	29	30	30	30	29	27	28	26	27	25	27	24
	UQ																								
	LQ																								
h'F2	MED																								
	CNT												1		1	1									
	UQ																								
	LQ																								
h'F	MED	260	270	270	270	260	260	260	250	260	260	250	250	260	260	250	260	260	260	260	260	260	270	290	270
	CNT	30	30	29	30	30	31	30	30	30	30	29	30	30	30	29	30	30	30	30	28	29	29	28	29
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED												1	1	1	1									
	CNT																								
foE	MED									U															
	CNT				1	1	1			170	180	200	200	200	200	190	200	190	170						
	UQ									8	15	18	25	29	29	26	20	15	10						
	LQ																								
h'E	MED											U					U								
	CNT						1			1	2	150	120	120	140	130	130	4	1						
	UQ											7	11	15	14	10	7								
	LQ																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

OCTOBER, 1957

TABLE 72

LULEA, SWEDEN (65.6N, 22.1E)

TIME 15.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	65	D	60	0	D	D	D	D	D	0	D	D	D	D	0	D	D	0	0	0	0	D	0	D
	CNT	11	60	61	68	62	57	60	80	90	92					98	95	95	90	78	65	65	60	60	60
	UQ		15	10	14	16	19	24	25	28	27	27	24	27	28	28	29	29	25	22	18	14	14	15	12
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED	310	340	310	300	300	290	270	250	250	240	240	235	235	235	240	240	240	240	250	255	260	280	310	310
	CNT	13	12	12	16	17	21	23	24	25	25	23	25	25	26	25	26	26	22	23	22	17	15	12	13
	UQ																								
	LQ																								
(M3000)F2	MED	280	270	270	280	280	280	280	280	300	290	290	300	300	300	300	300		300	300		280	300	290	280
	CNT	4	5	5	7	5	8	10	7	8	4	4	2	2	1	2	2		1	1		2	2	4	3
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							180	180	260	300	310	320	310	300	290	230	200	E 170						
	CNT							4	15	17	19	15	17	19	18	23	22	17	1						
h'E	MED								160	135	130	130	120	120	120	120	145	155							
	CNT								6	12	15	12	15	16	17	18	12	8							
foEs	MED	E	E				E	E	G	G	G	G	G	G	G	G	G	E	E	E	E				
	CNT	28	28	31	28	19	18	18										15	18	19	19	26	25	35	44
	UQ	16	20	18	18	17	18	21	16	23	23	23	23	25	22	23	22	20	18	20	22	22	21	21	19

SWEEP 1.5 MC TO 10.0 MC IN 9 MINUTES. AUTOMATIC OPERATION.

OCTOBER, 1957

TABLE 73

FROBISHER BAY, CANADA (63.8N, 68.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	70	66	50	53	48	49	46	48	59	70	82	95	109	112	102	92	86	80	76	70	68	72	70	62
	CNT	16	15	16	15	16	14	14	13	14	15	15	15	14	14	13	15	14	14	15	15	14	15	14	12
	UQ																								
	LQ																								
h'F2	MED																								
	CNT											2	2	1	3	2	2								
	UQ																								
	LQ																								
h'F	MED	300	300	300	300	300	320	300	320	270	260	260	240	230	230	240	240	240	270	260	280	300	300	300	270
	CNT	15	16	17	13	16	15	12	13	13	14	12	14	11	11	14	14	14	13	15	14	15	13	12	15
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED														U										
	CNT											2	3	3	490	4	2								
															5										
foE	MED									U	U										U				
	CNT					1	1	1	3	210	260	280	300	300	300	300	300	280	260	220	200				
										8	9	12	11	11	12	15	15	13	14	14	8				
h'E	MED										U	U	U					U	U	U					
	CNT						1			2	105	100	100	100	100	100	110	120	120	130	2				
											5	7	9	10	9	12	11	7	5	5					
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

OCTOBER, 1957

TABLE 74

FREIBURG, GERMANY (48.1N, 7.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	68	66	64	62	57	54	78	112	128	U 132	U 137	U 140	U 132	U 131	U 129	U 128	U 124	U 118	U 106	94	84	79	72	71
	CNT	30	29	29	28	30	27	29	29	29	28	28	26	26	26	28	25	28	21	29	29	31	30	30	29
	UQ	73	71	66	66	62	59	83	120	140	150	150	150	144	136	134	134	129	125	108	98	89	83	79	78
	LQ	65	63	60	54	52	49	70	90	118	124	130	127	120	122	120	118	116	112	98	86	77	72	67	65
h'F2	MED									260		295	285												
	CNT									1		1	1												
	UQ																								
	LQ																								
h'F	MED	300	298	305	298	260	255	240	228	225	220	225	225	225	230	235	240	240	242	240	235	252	270	275	295
	CNT	27	28	27	26	26	27	29	28	30	30	27	27	26	27	28	27	28	30	30	29	28	27	25	26
	UQ																								
	LQ																								
(M3000)F2	MED	245	245	245	245	255	255	280	U 300	292	U 285	U 280	U 272	U 270	U 265	U 270	U 270	U 270	U 275	U 275	270	258	255	255	245
	CNT	28	28	29	27	27	27	29	28	22	21	23	20	21	22	25	23	26	20	27	28	30	30	28	27
	UQ	255	258	255	260	265	265	298	302	300	295	285	280	275	275	275	275	285	280	285	278	270	265	265	260
	LQ	232	235	232	230	235	245	275	288	290	275	270	265	260	260	265	265	270	268	270	265	250	245	230	230
foF1	MED																								
	CNT																								
foE	MED							175	260	310	340	355	365	365	355	335	290	235	E						
	CNT							21	29	28	21	20	24	26	22	24	26	18	9						
h'E	MED							151	111	109	108	105	105	105	106	107	111	114	E						
	CNT							9	21	22	24	20	15	17	12	10	8	6	8						
foEs	MED	E		E	E	E	E	G	27	32	36	38	38	G	G	G	29	24	21	18	20	20	18	E	14
	CNT	29	14 30	29	28	28	27	29	29	30	31	31	29	29	28	30	28	28	30	30	30	30	30	29	28

SWEEP 1.25 MC TO 20.0 MC IN 3 MINUTES.

OCTOBER, 1957

TABLE 75

DELHI, INDIA (28.6N, 77.2E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	90	81	69	62	61	64	90	128	142	150	151	153	156	D 154	0 155	0 152	D 149	0 145	0 143	0 136	0 128	0 111	0 95	92
	CNT	22	21	14	16	25	27	23	22	24	18	27	21	19	28	28	29	30	28	21	30	23	24	26	17
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	265	280	260	270	280	280	290	320	300	280	260	260	245	245	245	245	245	260		280			280	270
	CNT	14	12	9	12	21	22	12	16	22	11	11	11	12	7	6	7	4	7	3	4	3		8	6
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

OCTOBER, 1957

TABLE 76

AHMEDABAD, INDIA (23.0N, 72.6E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	142	126	108	84	74	63	83	126	146	153	155	160	165	170	173	173	169	168	165	170	177	174	165	152
	CNT	28	29	29	28	29	29	28	28	28	29	28	26	22	21	20	17	21	23	24	23	20	16	22	29
	UQ																								
	LQ																								
h'F2	MED									245	250	350	400	435	445	430	410	380	300						
	CNT									29	30	28	28	28	27	28	27	28	28						
	UQ																								
	LQ																								
h'F	MED	255	240	250	245	255	270	280	250	240	235	230	220	220	225	240	250	250	265	290	325	300	265	250	250
	CNT	31	31	31	30	31	30	30	13	26	21	17	13	9	10	16	19	21	23	31	30	29	30	31	13
	UQ																								
	LQ																								
(M3000)F2	MED	270	275	275	275	265	265	275	300	285	265	250	240	230	230	230	230	235	240	240	235	245	255	265	270
	CNT	28	29	28	28	27	27	27	28	25	29	25	28	25	25	26	25	27	27	27	28	25	24	27	29
	UQ																								
	LQ																								
foF1	MED										U 520		560	U 610	630	630	U 580	590	550						
	CNT									2	3	2	5	3	6	10	3	8	9						
foE	MED								260	330	370	400	410	430	430	410	380	340	260						
	CNT							1	29	28	29	24	17	13	12	22	23	28	22						
h'E	MED								115	110	105	105	105	103	105	105	107	110	115						
	CNT								28	28	28	20	10	8	6	12	24	23	15						
foEs	MED	E	E	E	E	17	E	15	26	33	37	40	41	43	43	41	38	36	33	33	25	18	21	E	E
	CNT	30	30	30	29	30	29	29	30	29	30	30	28	26	28	28	26	29	29	29	29	28	28	29	30

SWEEP 0.6 MC TO 25.0 MC IN 5 MINUTES, AUTOMATIC OPERATION.

OCTOBER, 1957

TABLE 77

CALCUTTA, INDIA (23.0N, 88.6E) TIME 90.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D		120	115	68	56	95	125	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	CNT	24		26	22	16	23	23	26	27	26	24	25	27	26	26	24	22	26	26	23	23	23	23	22
	UQ																								
	LQ																								
h'F2	MED									220	280	350	400	450	460	450	450	420							
	CNT									1	5	13	21	23	23	24	21	13							
	UQ																								
	LQ																								
h'F	MED	245	245	240	240	250	260	290	250	250	250	250	250	E	250	250	250	250	270	300	330	300	255	250	250
	CNT	28	28	28	28	28	24	27	26	25	18	13	9	6	9	14	21	20	26	26	27	26	27	28	28
	UQ																								
	LQ																								
(M3000)F2	MED	350	345	350	350	340	310	320	350	340															
	CNT	4	14	15	16	15	21	21	19	7															
	UQ																								
	LQ																								
foF1	MED										U	U	U					U							
	CNT									1	880	880	860	850	840	800	760	700							
											6	14	21	26	23	23	20	13							
foE	MED							180	300	350	380	400	U 410	410	U 400	400	380	330	270	150					
	CNT							20	26	24	16	6	5	4	8	12	22	19	14	3					
h'E	MED							140	110	110	105	100	100	100	100	105	110	110	110						
	CNT							16	26	24	23	20	18	20	20	21	24	17	14	2					
foEs	MED	E	E	E	E	E	E	G	G	G	G	G	G	G	G	G	G						E	E	E
	CNT	28	28	28	28	28	27	26	26	22	22	19	19	19	18	21	23	34 21	35 26	35 26	35 27	19 27	25	27	25

SWEEP 1.0 MC TO 13.0 MC IN 1 MINUTE 55 SECONDS. OCTOBER, 1957

TABLE 78

BOMBAY, INDIA (19.0N, 72.8E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D																							
	CNT	108 5	3	4	4	3		87 23	104 24	117 18	123 17	122 20	129 14	130 12	138 9	140 13	142 13	139 17	131 15	124 10	113 10	4	100 8	92 13	4
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED							310	300	285	280	280	270	260	255	245	245	250	250	260	265	280	290	300	
	CNT	1	1	1	2	2		23	24	16	15	18	13	11	8	10	9	15	15	10	10	5	7	11	
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. OCTOBER, 1957

TABLE 79

MADRAS, INDIA (13.1N, 80.3E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED					83	80	99	133	140	144	138	134	128	133	132	134	D 122	128	O 115					
	CNT	15	16	15	16	13	16	20	23	24	14	18	19	24	13	22	18	21	13	17	16	15	16	15	16
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED				300	300	310	300	280	245	220	210	205	200	200	210	210	200	195						
	CNT	3	2	2	6	9	14	18	20	21	8	17	15	21	12	19	14	7	7	4	1	1	1	1	1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. OCTOBER, 1957

TABLE 80

TIRUCMY, INDIA (10.8N, 78.7E) TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	114	112	107	102	93	85	97	118	120	120	121	122	122	122	122	123	120	118	114	107	112	112	113	115
	CNT	12	14	15	20	20	19	27	29	30	27	28	28	24	28	25	29	27	26	30	8	8	8	9	13
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED	260	260	270	280	280	290	280	260	245	230	220	210	210	200	200	200	190	200	190	190	205	210	220	245
	CNT	12	14	15	20	20	19	27	30	30	26	28	28	23	25	24	26	25	25	16	9	6	8	9	12
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES, MANUAL OPERATION. OCTOBER, 1957

TABLE 81

KODAIKANAL. INDIA (10.2N. 77.5E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 114	U 110	106	100	90	84	98	122	138	143	132	124	120	120	124	127	127	124	114	99	U 101	U 106	106	U 113
	CNT	18	19	24	27	22	21	25	30	30	30	29	27	30	29	29	29	28	31	31	17	14	13	14	17
	UQ																								
	LQ																								
h'F2	MED												1	1	2	3									
	CNT																								
	UQ																								
	LQ																								
h'F	MED	260	260	250	240	240	235	280	255	240	230	220	220	220	225	230	240	260	280	375	460	425	345	320	280
	CNT	30	29	30	30	30	26	26	29	28	29	28	26	29	30	27	28	26	30	31	26	20	27	30	31
	UQ																								
	LQ																								
(M3000)F2	MED	U 260	U 265	280	285	290	300	280	265	245	220	210	205	200	200	200	205	205	205	195	190	U 200	U 210	220	U 240
	CNT	18	18	24	26	22	21	25	29	29	29	27	26	30	29	29	29	28	30	31	17	14	14	14	17
	UQ																								
	LQ																								
foF1	MED														760										
	CNT												1	4	5	2									
foE	MED							220	310	360						400									
	CNT							6	20	5					2	5	4	2	3						
h'E	MED							130	110	110					110	110	110	110	120						
	CNT							6	23	11	3	1	3	1	5	8	10	13	5						
foEs	MED																	92	U 75						U 68
	CNT	2	2	2	3	4		48 12	74 30	107 30	116 30	122 29	123 27	122 30	120 30	120 29	114 29	28	22				44 6	58 6	5

SWEEP 1.0 MC TO 25.0 MC IN 27 SECONDS.

OCTOBER. 1957

TABLE 82

TRIVANDRUM. INDIA (8.5N. 77.0E)

TIME 75.0E

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 105	D 102	D 100	D 103	102	91	97	D 120	139	143	133	124	123	124	125	130	D 127	D 120	D 114	D 110	D 108	D 100	D 106	D 110
	CNT	10	10	11	11	9	10	25	29	27	29	28	29	29	30	30	23	31	31	30	8	8	8	7	7
	UQ																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT																								
	UQ																								
	LQ																								
(M3000)F2	MED					300	300	300	260	250	220	210	205	200	200	200	190	190	200	200					
	CNT			1		6	9	23	14	25	27	27	26	28	28	27	20	14	4	4	1	1	2	2	1
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.5 MC TO 18.0 MC IN 5 MINUTES. MANUAL OPERATION.

OCTOBER. 1957

TABLE 83

PARAMARIBO. SURINAM (5.8N. 55.2W)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 175	D 176	D 173	163	148	109	D 89	72	64	66	106	136	147	142	142	143	142	141	140	140	143	145	D 150	170
	CNT	25	28	26	26	26	26	26	27	26	27	27	28	28	28	28	28	28	28	29	27	29	28	28	25
	UQ	182	187	195	180	156	123	100	86	70	77	115	142	150	145	145	147	149	144	148	150	147	151	163	173
	LQ	164	156	149	135	110	93	82	65	57	59	100	127	138	140	137	139	140	138	137	135	134	138	144	149
h'F2	MED																								
	CNT																								
	UQ																								
	LQ																								
h'F	MED																								
	CNT												4	230	230	230	240	245	245	245	245	250	290		
	UQ													16	23	27	27	26	21	22	17	19	21	1	
	LQ																								
(M3000)F2	MED	250	260	265	280	285	280	275	270	265	270	290	290	285	270	255	250	235	230	225	230	230	235	235	240
	CNT	7	9	13	18	22	24	22	25	24	25	26	28	26	26	28	28	28	27	28	26	29	27	23	9
	UQ																								
	LQ																								
foF1	MED													880	850	820	800	780	730	710	720				
	CNT													2	7	20	27	24	27	27	22	20	2		
foE	MED										150	240	330	390	420	460	470	470	440.	410	380	330	240		
	CNT										5	24	28	28	27	27	24	26	23	25	22	19	13	1	
h'E	MED												100	100	100	100	105	105	100	100	100	100			
	CNT											4	18	27	27	27	24	25	26	28	22	17	3	1	
foEs	MED																								
	CNT																								

SWEEP 1.4 MC TO 16.0 MC IN 40 SECONDS.

OCTOBER. 1957

TABLE 84

LWIRO. CONGO (2.3S. 28.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 100	D 126	D 100	D 100	D 100	88	92	D 100	D 109	130	U 137	D 134	D 133	D 134	D 130	D 130	D 134	D 132	D 132	D 100	D 100	D 100	D 100	D 100
	CNT	23	25	25	25	25	21	19	21	19	26	25	26	25	24	20	23	25	25	22	22	21	21	21	21
	UQ							98		119		139													
	LQ						83	85																	
h'F2	MED								1	1			480	500	505	515	520	495							
	CNT												10	14	13	14	15	15							
	UQ												505	510	525	520	530	515							
	LQ												475	495	460	480	500	475							
h'F	MED	250	270	275	250	235	230	255	245	235	230	220	215	210	210	215	230	250	275	340	415	340	270	235	225
	CNT	23	25	25	25	25	23	22	21	19	24	22	16	15	13	14	18	23	21	21	21	21	20	21	21
	UQ	260	292	287	267	250	230	265	250	240	230	225	220	215	215	220	235	255	275	347	430	387	290	252	237
	LQ	225	257	255	240	227	220	250	240	235	230	220	210	210	205	210	220	250	270	320	392	325	255	230	217
(M3000)F2	MED		U 259	U 273	U 278	U 287	300	288	U 296	U 270	242	229	U 221	218	218										
	CNT	4	10	5	9	8	13	18	9	9	20	17	13	10	6	3	4	4	4	2	1		2	4	4
	UQ				290		322	297			252														
	LQ					287	273	275		258	233	223													
foF1	MED											2	3	4	4	1	2								
	CNT																								
foE	MED							220	305	365	400	430	435	U 445	430		390	350	290						
	CNT							10	17	18	21	15	7	9	6	3	12	17	10						
h'E	MED						U 135	121		113	111							113	119						
	CNT						6	12		8	6	2	1					12	11						
foEs	MED	E	E	E	E	E			G	G				G	G	G	G							E	
	CNT	23	25	25	25	25	16 23	21 22	34 18	38 18	42 22	19	15	14	14	16	21	37 25	30 24	24 22	21 22	16 21	17 21	20 21	21

SWEEP 1.25 MC TO 25.0 MC IN 10 MINUTES. AUTOMATIC OPERATION.

OCTOBER. 1957

TABLE 85

TUCUMAN, ARGENTINA (26.9S, 65.4W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	158	163	144	100	90	77	94	U 118	U 127	133	U 140	U 142	146	U 147	148	148	148	148	148	142	148	148	148	U 149
	CNT	26	27	27	26	26	27	27	25	27	29	27	27	27	26	24	26	27	28	28	28	25	22	20	21
	UQ																								
	LQ																								
h'F2	MED												U 510	530	535	520	500	500	U 470						
	CNT												4	9	12	12	15	7	2						
	UQ																								
	LQ																								
h'F	MED	290	270	230	215	245	260	270	230	225	225	220	225	220	220	230	225	230	250	280	355	440	410	350	300
	CNT	29	29	29	29	29	28	29	27	25	26	20	15	9	8	9	15	17	24	26	24	25	27	28	29
	UQ																								
	LQ																								
(M3000)F2	MED	U 290	U 310	U 310	275	260	260	285	U 285	U 280	250	U 250	U 245	U 245	U 240	U 240	U 245	U 235	U 260	U 260	U 220	U 230	U 220	U 240	U 235
	CNT	11	13	18	20	24	26	25	20	24	26	23	23	17	17	14	10	9	8	5	7	6	10	10	11
	UQ																								
	LQ																								
foF1	MED											780	770	730	710	700	680	640							
	CNT											5	7	10	14	15	10	3							
foE	MED							220	U 310	U 360	U 380		U 480					U 360	310	U 245					
	CNT							21	23	9	1		1					1	12	14					
h'E	MED							146	105	103	105	105	105	111	105	101	102	101	103	131					
	CNT							12	18	20	19	10	3	3	3	4	4	5	13	8					
foEs	MED	22	71	28	28	30	22	G	G	G	G	G	G	55	52	50	45	43	G	G	38	60	36	36	34
	CNT	1	1	2	2	5	7	26	23	21	20	16	7	7	9	10	15	17	24	21	10	6	3	1	2

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

OCTOBER, 1957

TABLE 86

FROBISHER BAY, CANADA (63.8N, 68.6W)

TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	64	61	50	45	U 43	40	U 51	U 50	U 50	U 60	U 70	81	96	102	U 93	U 81	80	82	76	80	77	74	66	53
	CNT	10	10	10	10	9	10	9	9	9	7	8	10	10	10	9	9	10	12	11	10	10	10	10	11
	UQ																								
	LQ																								
h'F2	MED										1	2	3	2	3	4	3	3	1						
	CNT																								
	UQ																								
	LQ																								
h'F	MED	290	280	U 300	U 310	320	310	320	U 300	U 280	U 270	U 240	U 250	U 240	U 240	U 240	U 240	U 240	U 260	270	280	290	280	260	U 290
	CNT	10	10	8	8	10	8	8	9	7	7	6	7	7	9	9	7	9	9	10	10	10	10	10	9
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT																								
	UQ																								
	LQ																								
foF1	MED									1	1	2	3	2	4	4	4	4	2	1	1				
	CNT																								
foE	MED													3	U 330	U 300			U 260						
	CNT								3	2	1	1	1	3	4	5	5	4	4	5	3	1			
h'E	MED									1		1	1	2	2	2	4	2	1	1					
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS.

SEPTEMBER, 1957

TABLE 87

DOURBES, BELGIUM (50.1N, 4.6E)

TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	U 19	20	21	22	23
foF2	MED	66	63	60	56	49	50	69	84	91	104	105	106	104	104	102	96	97	99	U 86	U 90	80	76	70	68
	CNT	24	26	25	24	25	24	22	22	19	20	26	21	22	20	22	23	23	23	23	27	27	27	27	24
	UQ	72	70	66	61	59	60	76	92	100	112	119	114	114	112	109	109	105	105	100	95	86	80	75	72
	LQ	54	40	40	41	30	42	56	63	72	86	82	79	85	86	82	69	63	67	60	60	52	53	49	54
h'F2	MED							U 525	U 520	420	600	335	410	430	295	330	370	470	425						
	CNT							1	2	1	4	3	5	5	5	6	4	1	1						
	UQ										670		735	555	460	400	480								
	LQ										390		310	270	260	315	300								
h'F	MED	285	280	280	280	280	260	240	230	230	220	220	220	220	225	230	230	235	245	240	240	240	240	260	280
	CNT	21	23	24	21	20	21	22	20	19	18	23	20	19	18	21	20	22	25	27	25	27	24	23	20
	UQ	315	305	310	320	320	290	260	240	240	230	230	230	225	245	240	240	245	255	270	250	255	280	295	285
	LQ	270	265	270	265	270	245	230	220	220	220	215	215	215	215	220	230	230	240	230	230	230	230	255	270
(M3000)F2	MED	260	260	260	260	255	280	310	305	300	290	295	285	280	280	280	285	285	285	285	280	280	270	265	265
	CNT	24	25	24	23	24	23	22	22	19	19	25	20	22	20	22	23	23	21	21	25	26	25	27	23
	UQ	265	270	265	270	270	290	320	310	315	305	310	290	285	285	290	295	295	295	295	290	290	275	270	270
	LQ	245	240	240	235	230	260	290	295	295	280	285	275	265	270	270	280	275	280	270	260	270	250	240	255
foF1	MED							340	400	460	460	470	530	530	490	560	520	460	470						
	CNT							1	2	1	4	5	6	5	4	6	4	1	1						
foE	MED						E 160	235	U 290	325	U 365	365	U 385	U 390	U 380	U 360	335	300	255	E 160					
	CNT						13	12	14	9	10	11	5	5	6	9	12	18	14	10					
h'E	MED						114	115	107	107	105	105	106	107	105	105	106	108	111	135					
	CNT						4	12	19	16	18	25	20	21	19	18	18	20	14	1					
foEs	MED	E 16	11	E	E	E 16	E 16	25	32	36	41	42	44	41	40	41	38	36	28	23	E 16	E 16	E 16	E 16	16
	CNT	26	25	26	16	25	21	11	12	13	15	18	12	11	11	9	10	12	18	27	29	28	28	27	26

SWEEP 1.0 MC TO 20.0 MC IN 3 MINUTES.

SEPTEMBER, 1957

TABLE 88

TUCUMAN, ARGENTINA (26.9S, 65.4W)

TIME 60.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	162	150	136	104	79	70	74	102	127	133	138	143	147	149	149	149	151	150	150	144	145	146	150	158
	CNT	20	25	25	25	24	22	23	26	26	26	24	23	24	25	25	26	23	21	21	20	18	18	16	19
	UQ																								
	LQ																								
h'F2	MED										U 240		315	410	410	420	420	410	U 420						
	CNT										1		3	10	15	17	15	9	3						
	UQ																								
	LQ																								
h'F	MED	230	230	220	210	215	240	260	230	225	215	215	210	210	230	220	230	240	250	275	315	320	275	250	240
	CNT	27	27	27	26	26	26	25	26	26	24	16	12	11	9	13	14	16	19	22	22	23	25	26	26
	UQ																								
	LQ																								
(M3000)F2	MED	310	320	320	315	290	280	280	305	315	305	290	275	270	263	268	268	263	270	268	245	245	255	278	318
	CNT	17	21	23	22	23	21	22	25	24	24	21	21	22	20	18	20	16	16	12	13	11	10	8	12
	UQ																								
	LQ																								
foF1	MED													625	U 590	700	U 660								
	CNT													4	3	3	2								
foE	MED				U 190	U 120		U 175	U 270	320	U 375		U 390				U 380	U 370	U 305	U 220					
	CNT				1	1		4	21	20	4		1				1	6	10	9					
h'E	MED				U 199	U 155		U 151	111	101	99	103	U 100	U 111	U 105	U 101	103	105	100	131					
	CNT				1	1		3	17	19	16	8	4	3	1	3	7	10	12	5					
foEs	MED	41	38	30	28	21	25	20	G	G	G	G	G	G	53	51	G	G	G	G	33	30	27	38	76
	CNT	5	6	9	10	6	7	11	24	24	17	6	4	4	4	9	10	14	21	13	9	2	5	4	2

SWEEP 1.0 MC TO 25.0 MC IN 30 SECONDS.

SEPTEMBER, 1957

TABLE 89

DOURBES, BELGIUM (50.1N, 4.6E) TIME 0.0

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	65	60	58	54	51	58	68	76	82	85	81	81	84	84	80	80	78	80	83	U 80	80	77	70	68
	CNT	24	28	27	26	28	27	26	25	22	19	20	16	18	21	22	23	24	27	21	22	22	23	25	23
	UQ	70	65	61	58	57	65	75	81	86	91	94	88	90	89	85	83	84	86	87	88	83	82	76	74
	LQ	60	54	50	50	45	52	55	67	71	72	68	68	71	71	71	71	73	75	75	73	74	68	63	64
h'F2	MED								345	345	340	360	375	370	390	400	350	370	315						
	CNT								12	14	11	15	13	14	18	16	15	12	5						
	UQ								400	400	430	425	425	440	405	410	370	375	370						
	LQ								310	320	300	330	320	360	350	360	330	355	295						
h'F	MED	315	320	320	310	300	270	255	245	230	235	220	220	220	230	225	230	250	255	270	270	270	280	300	310
	CNT	23	26	22	25	27	26	22	20	12	16	13	9	14	14	17	18	22	26	21	22	25	22	25	22
	UQ	345	335	325	330	325	290	260	250	240	240	220	240	245	240	240	240	250	260	280	285	290	300	320	335
	LQ	300	305	300	300	285	265	250	240	220	220	210	210	215	225	220	220	240	250	265	260	260	270	285	300
(M3000)F2	MED	255	250	250	250	265	285	290	280	280	280	270	270	265	265	270	275	270	275	275	U 275	270	265	260	255
	CNT	23	28	27	24	27	27	26	25	22	18	19	16	18	21	21	21	24	27	21	22	21	20	24	23
	UQ	260	260	260	260	275	290	300	290	290	285	280	280	275	275	280	275	280	280	285	280	275	270	265	260
	LQ	245	240	240	240	255	270	280	275	270	275	265	260	260	260	265	270	270	270	270	270	265	250	250	250
foF1	MED						310	430	460	500	510	540	550	550	550	560	510	500	480						
	CNT						1	1	11	10	9	11	9	10	11	14	14	9	3						
foE	MED					E	U	U	U	U		U	U		U	U	U				E				
	CNT					160	185	260	310	350	370	385	385		375	380	360	330	290	240	160				
						3	1	8	4	7	2	1	1		1	1	4	10	8	3	4				
h'E	MED					111	121	119	115	115	117	113	115	113	112	116	111	113	115	119	115				
	CNT					1	8	18	23	20	18	15	11	13	12	18	16	17	17	11	3				
foEs	MED	19	18	16	16	17	26	32	38	43	43	43	45	44	42	43	40	38	33	32	26	23	23	20	18
	CNT	22	25	24	22	26	21	23	23	21	20	18	15	14	13	7	12	14	19	20	24	21	19	22	17

SWEEP 1.0 MC TO 20.0 MC IN 3 MINUTES. AUGUST, 1957

TABLE 90

EUREKA, CANADA (80.0N, 85.9W) TIME 75.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	58	59	60	60	56	58	60	60	58	58	59	59	60	60	62	60	59	58	58	59	56	57	57	56
	CNT	18	17	16	18	16	15	14	14	11	11	13	12	13	13	15	14	15	13	12	13	12	14	14	15
	UQ																								
	LQ																								
h'F2	MED	U 440	450	480	380	390	U 390	410	400	430	U 450	470	490	460	460	450	480	460	450	U 450	410	U 410	400	U 440	390
	CNT	7	11	11	11	12	9	12	13	10	9	13	12	12	13	15	15	15	11	8	11	9	12	6	10
	UQ																								
	LQ																								
h'F	MED	240	250	240	220	220	210	210	220	200	200	200	200	200	200	200	210	220	210	210	220	230	240	240	230
	CNT	18	18	17	16	16	14	13	13	13	11	13	14	14	12	15	15	14	12	12	12	13	14	13	15
	UQ																								
	LQ																								
(M3000)F2	MED																								
	CNT		1		3	1		1		2	1	1	1		2	2	2	3	2		2	1	2	1	1
	UQ																								
	LQ																								
foF1	MED	U 370	380	400	420	440	440	450	450	470	470	480	470	470	480	480	460	460	450	440	440	400	400	U 400	400
	CNT	9	13	12	13	13	13	13	14	14	13	15	15	15	15	16	16	15	14	11	12	12	13	9	11
foE	MED	250	260	270	280	280	290	300	300	320	320	330	340	330	330	330	330	320	300	300	290	280	270	270	260
	CNT	17	17	18	16	16	15	14	11	11	11	11	12	10	12	15	16	15	13	12	14	13	14	11	13
h'E	MED	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	U 100	100
	CNT	13	15	15	13	13	12	12	10	11	11	11	12	10	11	13	14	13	11	11	11	11	10	9	11
foEs	MED																								
	CNT																								

SWEEP 1.6 MC TO 20.0 MC IN 15 SECONDS. JULY, 1957

TABLE 91

SAO PAULO, BRAZIL (23.5S, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	119	104	87	74	56	47	46	85	118	D 140	143	144	146	146	O 150	154	154	156	D 150	D 140	132	133	131	120
	CNT	24	23	24	24	24	23	24	24	24	25	28	26	26	26	26	27	27	28	28	25	23	23	24	23
	UD																								
	LQ																								
h'F2	MED																								
	CNT																								
	UD																								
	LQ																								
h'F	MED	230	230	220	225	230	E 265	E 270	260	245	235	230	220	215	215	220	240	250	260	245	245	255	250	240	230
	CNT	25	24	24	24	24	24	24	24	24	24	28	22	21	22	23	25	26	29	29	26	25	22	25	25
	UQ																								
	LQ																								
(M3000)F2	MED	310	310	300	320	300	290	275	310	310	320	305	295	280	U 270	265	260	U 275	290	U 315	U 290	U 280	U 270	U 300	300
	CNT	13	13	12	12	12	11	11	12	11	10	17	13	12	9	11	14	16	15	9	13	12	12	12	12
	UQ																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED								E 220	300	340	360	380	390	380	380	350	300	E 230						
	CNT								11	10	19	18	15	11	7	7	11	7	7						
h'E	MED									120	E 120	110	110	110	110	110	120	U 125	U 130						
	CNT								1	15	18	20	17	14	9	10	10	6	4						
foEs	MED																								
	CNT																								

SWEEP 1.75 MC TO 20.0 MC IN 2 MINUTES 30 SECONDS. MAY, 1957

TABLE 92

SAO PAULO, BRAZIL (23.5S, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	O 140	145	126	102	71	63	68	102		O 140	152	150	147	152	164	166	166	171	168	D 140	D 140	D 150	O 150	164	
	CNT	19	18	19	20	19	17	15	15	128	16	15	20	22	21	21	22	21	22	27	25	25	20	20	22	21
	UQ																									
	LQ																									
h'F2	MED																									
	CNT																									
	UQ																									
	LQ																									
h'F	MED	220	230	220	215	250	265	280	250	240	230	220	220	220	220	220	235	240	250	260	300	300	265	240	230	
	CNT	19	18	19	20	19	17	15	15	16	13	19	21	17	18	19	20	22	25	23	25	22	21	24	22	
	UQ																									
	LQ																									
(M3000)F2	MED	305	315	325	320	290	270	270	310	300	290	290	275	270	260	260	260	270	270	275	U 270	U 275	U 275	U 290	300	
	CNT	15	15	16	18	19	17	15	15	15	10	16	13	16	18	18	19	17	23	20	12	9	11	15	18	
	UQ																									
	LQ																									
foF1	MED																									
	CNT																									
foE	MED								E 240	300	340	360	400	400	U 390	370	360	320	U 300	1						
	CNT								9	10	6	10	12	9	4	7	4	5	7							
h'E	MED								U 125	100	110	110	110	105	100	110	105	105	100	1						
	CNT								2	7	5	13	10	9	7	10	4	7	5							
foEs	MED																									
	CNT																									

SWEEP 1.75 MC TO 20.0 MC IN 2 MINUTES 30 SECONDS. APRIL, 1957

TABLE 93

SAO PAULO, BRAZIL (23.5S, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	170	161	146	118	98	81	76	106	122	132	136	140	140	142	146	152	150	O 140	D 140	D 140	D 140	O 140	D 140	
	CNT	20	20	20	19	19	19	20	20	18	23	24	25	26	23	24	24	24	23	22	21	13	12	13	19
	UD																								
	LQ																								
h'F2	MED																								
	CNT																								
	UD																								
	LQ																								
h'F	MED	230	220	230	220	230	230	240	240	220	220	210	200	210	200	210	220	230	240	260	300	340	260	250	230
	CNT	21	20	20	20	19	20	20	21	18	16	22	17	11	10	15	19	19	22	21	21	22	20	21	20
	UD																								
	LQ																								
(M3000)F2	MED	U 330	U 330	330	300	300	290	280	310	310	280	260	260	260	260	250	260	280	U 270	U 280	U 260		U 260		260
	CNT	16	16	16	19	19	19	20	20	18	20	20	15	17	14	14	19	13	11	7	8	3	4	3	12
	UD																								
	LQ																								
foF1	MED																								
	CNT																								
foE	MED							E							U						E				
	CNT							10	18	17	11	13	12	9	6	9	16	16	12	6					
h'E	MED								115	110	110	110	110	110	120	120	120	120	120	U 110					
	CNT							1	18	15	12	17	14	10	7	9	16	18	9	2					
foEs	MED																								
	CNT																								

SWEEP 1.75 MC TO 20.0 MC IN 2 MINUTES 30 SECONDS. MARCH. 1957

TABLE 94

SAO PAULO, BRAZIL (23.5S, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	D 140	140	121	99	87	71	74	95	107	110	116	122	130	136	140	140	O 140	D 140	D 140	D 140	D 140	D 140	D 140	D 140
	CNT	18	20	21	22	22	21	20	24	25	27	27	27	25	25	26	26	23	25	23	23	17	14	14	15
	UD																								
	LQ																								
h'F2	MED																								
	CNT																								
	UQ																								
	LD																								
h'F	MED	250	250	240	230	240	250	240	240	230	220	210	210	U 200	200	220	220	220	240	260	290	340	280	270	260
	CNT	25	25	24	24	24	25	24	25	25	22	22	12	8	10	14	14	15	20	22	24	25	25	25	24
	UQ																								
	LQ																								
(M3000)F2	MED	310	320	300	290	280	280	290	300	290	280	260	250	240	240	250	260	260	270	280	U 280	U 270	U 290	U 290	U 300
	CNT	10	11	12	14	14	12	13	15	16	17	17	16	15	14	15	12	12	12	10	7	4	6	7	6
	UD																								
	LD																								
foF1	MED																								
	CNT																								
foE	MED							200	270	330	360	390	400	410	410	400	390	360	320	E 260					
	CNT						1	9	16	16	20	21	12	12	8	12	13	17	14	10					
h'E	MED							115		115	110	110	110	110	110	120	115	120	120	115					
	CNT							2	13	16	22	22	15	13	10	12	14	15	13	5					
foEs	MED																								
	CNT																								

SWEEP 1.75 MC TO 20.0 MC IN 2 MINUTES 30 SECONDS. FEBRUARY. 1957

TABLE 95

SAO PAULO, BRAZIL (23.5S, 46.5W) TIME 45.0W

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	U 133	128	106	89	88	77	84	94	98	107	114	124	132	136	138	140	140	138	138	136	135	U 134	U 133	
	CNT	5	9	13	16	18	19	20	23	25	23	24	23	26	25	24	24	24	22	23	22	12	5	5	3
	UD																								
	LQ																								
h'F2	MED																								
	CNT																								
	UD																								
	LQ																								
h'F	MED	310	290	255	240	250	265	250	240	230	220	220	210	210	210	215	220	220	240	255	310	405	350	330	320
	CNT	21	20	18	18	19	20	21	21	21	16	15	13	10	13	16	17	16	15	18	17	18	18	19	20
	UD																								
	LQ																								
(M3000)F2	MED		U 290	U 290	U 280	280	U 260	280	250	240	220	220	230	240	240	240	240	240	240	240	U 230	U 220			
	CNT	2	6	6	8	10	8	16	11	12	14	12	14	13	15	12	13	15	12	10	8	4	2	3	2
	UD																								
	LD																								
foF1	MED																								
	CNT																								
foE	MED																								
	CNT																								
h'E	MED																								
	CNT																								
foEs	MED																								
	CNT																								

SWEEP 1.75 MC TO 20.0 MC IN 2 MINUTES 30 SECONDS. JANUARY. 1957

TABLE 96

LWIRO, CONGO (2.3S, 28.8E) TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	52	44	42	39	35	28	40	56	62	70	80	88	92	92	92	92	83	79	78	74	67	68	74	73
	CNT	26	24	20	22	23	23	26	28	28	27	31	31	31	31	31	28	29	29	29	27	28	28	24	27
	UD																								
	LQ																								
h'F2	MED								300	332	380	408	400	405	405	400	382	358	365	355					
	CNT							3	22	24	25	30	30	30	29	31	28	28	25	7					
	UD																								
	LQ																								
h'F	MED	230	260	265	255	260	272	260	240	230	225	222	215	212	210	210	215	228	245	280	282	308	305	268	220
	CNT	28	27	28	27	25	24	21	22	24	18	20	23	24	24	20	15	18	19	20	28	28	29	28	27
	UD																								
	LQ																								
(M3000)F2	MED	306	294	297	312	309	310	324	316	294	267	270	273	266	264	267	272	277	268	275	282	268	278	310	342
	CNT	26	20	17	20	21	22	25	28	28	26	29	29	28	30	31	26	28	28	29	27	28	26	22	25
	UD																								
	LQ																								
foF1	MED								370	415	425	435	440	440	440	440	420	402	395						
	CNT								8	24	25	28	30	27	28	29	26	24	13	1					
foE	MED							E	220	270	305	330	338	342	339	326	304	273	218						
	CNT							15	21	22	24	23	22	26	26	27	24	23	17	1					
h'E	MED							E	120	119	117	116	119	117	118	119	120	121	126						
	CNT							15	22	22	21	20	21	23	25	24	21	18	13	1					
foEs	MED	E	E	E	E	14	16	18	28	31	34	35	35	34	36	31	29	27	26	23	19	19	17	18	E
	CNT	28	28	28	28	28	28	28	27	27	28	29	30	30	31	31	28	29	29	29	29	29	29	28	28

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES. DECEMBER. 1953

TABLE 97

LWIRO, CONGO (2.35, 28.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	63	59	59	56	44	30	48	62	63	76	85	96	101	102	U 104	D 100	D 100	108	U 103	95	90	94	U 102	88
	CNT	13	15	13	13	14	16	16	16	15	14	17	18	18	18	18	19	19	19	18	18	17	16	15	14
	UQ																								
	LQ																								
h'F2	MED								285	315	365	435	438	422	405	405	395	380	318						
	CNT							1	15	14	13	15	18	18	18	17	19	19	16						
	UQ																								
	LQ																								
h'F	MED	220	250	250	235	220	235	252	235	230	225	218	210	205	215	220	222	225	250	268	282	295	275	240	215
	CNT	14	16	16	16	15	13	16	14	14	10	12	16	12	10	11	12	9	9	18	16	17	17	16	16
	UQ																								
	LQ																								
(M3000)F2	MED	298	286	298	321	331	307	323	327	279	262	250	255	253	260	254	258	263	270	278	271	271	282	323	350
	CNT	11	13	12	10	14	15	15	16	15	14	16	17	17	16	16	16	15	18	16	16	15	14	10	12
	UQ																								
	LD																								
foF1	MED									420	440	450	450	460	450	440	430	400							
	CNT								4	12	13	14	16	14	14	15	17	11	2						
foE	MED																			E					
	CNT							152	242	287	316	333	344	347	340	328	304	262	205	7	7				
								12	16	13	11	15	14	14	13	17	15	12	7						
h'E	MED																			E					
	CNT							131	112	111	111	112	112	112	112	111	112	112	119	6					
								12	14	9	10	13	14	13	14	14	15	9							
foEs	MED	E		E		E																			
	CNT				14		14	22	20	17				28	25	25	22	28	28	25	20	19	14	E	E
		15	15	15	15	15	16	16	16	15	11	15	17	17	18	19	18	18	19	18	17	17	16	15	15

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

NOVEMBER, 1953

TABLE 98

LWIRO, CONGO (2.35, 28.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	66	52	51	47	45	39	52	66	73	78	88	96	96	99	100	104	105	103	110	U 109	D 114	D 107	106	87
	CNT	22	20	20	21	22	20	23	23	26	27	28	27	29	31	29	29	30	30	29	29	27	25	25	19
	UD																								
	LD																								
h'F2	MED								260	290	322	325	330	392	405	390	368	348	370						
	CNT							1	18	25	26	21	21	22	26	27	20	20	11						
	UQ																								
	LQ																								
h'F	MED	205	260	280	275	260	240	250	240	225	220	220	210	215	210	200	220	U 230	260	280	280	265	250	230	220
	CNT	27	25	25	27	22	22	24	14	18	18	17	19	17	16	15	10	8	16	23	26	26	26	26	25
	UD																								
	LD																								
(M3000)F2	MED	286	275	280	289	297	332	343	343	321	297	286	274	265	259	264	274	272	278	284	290	301	313	324	343
	CNT	21	20	20	21	22	19	22	22	25	27	27	27	29	29	28	28	27	30	28	27	27	23	24	19
	UD																								
	LD																								
foF1	MED									U 425	U 450	460	465	465	460	458	435	U 440							
	CNT								3	19	25	23	25	18	18	22	13	6	1						
foE	MED																								
	CNT							160	U 245	291	320	340	350	352	348	331	304	272	215						
								6	15	22	26	24	24	20	22	20	19	18	7	2					
h'E	MED																								
	CNT							2	114	115	113	113	113	110	113	113	114	117							
									8	10	9	18	20	19	23	14	15	11	4						
foEs	MED	E																							
	CNT		17	20	19	20	24	25	32	34	34		24	28	34	36	33	41	34	32	30	22	18	18	E
		26	26	27	27	25	24	24	23	26	26	28	29	27	29	30	29	30	30	30	28	28	28	25	25

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

OCTOBER, 1953

TABLE 99

LWIRO, CONGO (2.35, 28.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
foF2	MED	56	49	40	34	30	29	44	72	81	90	92	96	100	98	92	90	90	91	94	100	98	103	96	76
	CNT	29	25	24	24	24	24	26	26	25	29	30	30	30	30	30	30	30	30	30	30	30	30	29	28
	UD																								
	LD																								
h'F2	MED								260	280	290	300	305	315	312	318	345	355	310						
	CNT								26	25	28	30	29	30	30	26	26	14	7						
	UQ																								
	LQ																								
h'F	MED	200	220	238	265	272	270	260	240	230	220	218	210	205	205	200	200		252	270	275	250	230	210	205
	CNT	27	25	26	20	18	21	26	19	14	9	16	19	22	24	19	11	3	18	25	29	30	29	29	28
	UQ																								
	LQ																								
(M3000)F2	MED	327	303	294	290	292	326	337	353	337	328	316	314	300	299	281	270	274	281	288	299	320	340	358	348
	CNT	26	23	22	22	22	20	24	26	25	29	30	29	29	30	30	30	30	29	28	28	30	26	26	26
	UQ																								
	LD																								
foF1	MED									430	450	460	470	470	460	450	440	420							
	CNT								2	21	24	22	23	27	25	24	17	11	1						
foE	MED																								
	CNT							158	230	282	317	338	348	351	346	333	310	276	222						
								6	22	23	28	29	28	29	28	29	27	20	12						
h'E	MED							E																	
	CNT							147	119	111	111	110	111	111	111	111	112	113	121						
								6	17	17	21	23	19	21	18	20	20	13	6						
foEs	MED	E																						E	E
	CNT		14	15	18	21	18	23	26	24							25	30	28	27	24	19	16		
		29	28	28	28	27	26	26	25	25	28	29	28	30	30	30	30	30	30	29	30	29	29	29	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

SEPTEMBER, 1953

TABLE 100

LWIRO, CONGO (2.35, 28.8E)

TIME LOCAL

HOUR		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
foF2	MED	48	44	31	25	20	U 22	34	62	74	84	81	85	80	84	80	77	80	78	78	72	70	65	51	46	
	CNT	24	22	17	13	14	14	21	25	25	29	29	28	29	30	30	30	29	30	29	30	29	29	25	24	
	UD																									
	LD																									
h'F2	MED								270	295	290	300	305	310	300	325	318	300	285							
	CNT								13	25	27	29	28	29	29	29	28	22	7							
	UQ																									
	LQ																									
h'F	MED	230	218	232	262	U 275	U 260	265	250	240	232	222	220	210	205	200	200	208	252	262	260	245	230	220	222	
	CNT	25	24	16	12	9	8	18	17	18	10	12	17	18	20	23	19	10	12	18	21	22	26	23	22	
	UD																									
	LD																									
(M3000)F2	MED	326	344	304	303	300	313	311	340	324	331	322	319	315	310	293	293	290	294	297	314	328	348	350	324	
	CNT	21	16	13	12	13	10	21	24	25	29	29	28	29	30	29	29	28	30	27	30	29	28	25	24	
	UD																									
	LD																									
foF1	MED									U 410	425	440	450	450	450	438	420	395								
	CNT									18	24	21	25	25	27	26	24	13								
foE	MED						E		206	271	305	327	342	349	342	332	310	281	228							
	CNT							12	20	20	27	25	22	20	25	25	25	20	11	4						
h'E	MED						E		120	110	111	109	110	110	111	111	113	115	119							
	CNT							12	10	14	25	26	28	26	28	22	24	20	15	2						
foEs	MED		14	E	18	22	22	22	25	30	42	34	35	35	35	36	32	32	32	34	32	30	29	28	18	17
	CNT		28	25	25	24	25	25	25	25	25	29	29	29	29	30	30	29	30	30	30	29	29	28	27	29

SWEEP 1.25 MC TO 20.0 MC IN 10 MINUTES.

AUGUST, 1953

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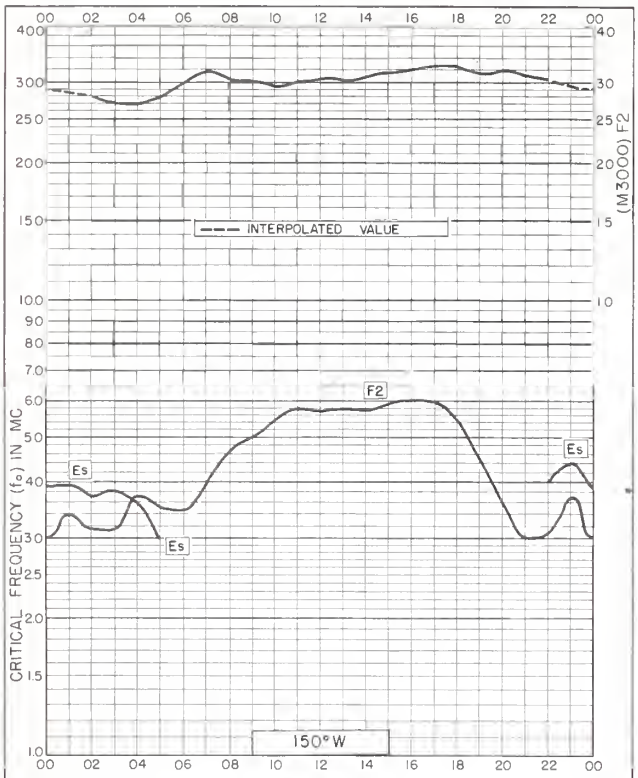


Fig. 1. FAIRBANKS, ALASKA
64.9°N, 147.8°W MARCH 1961

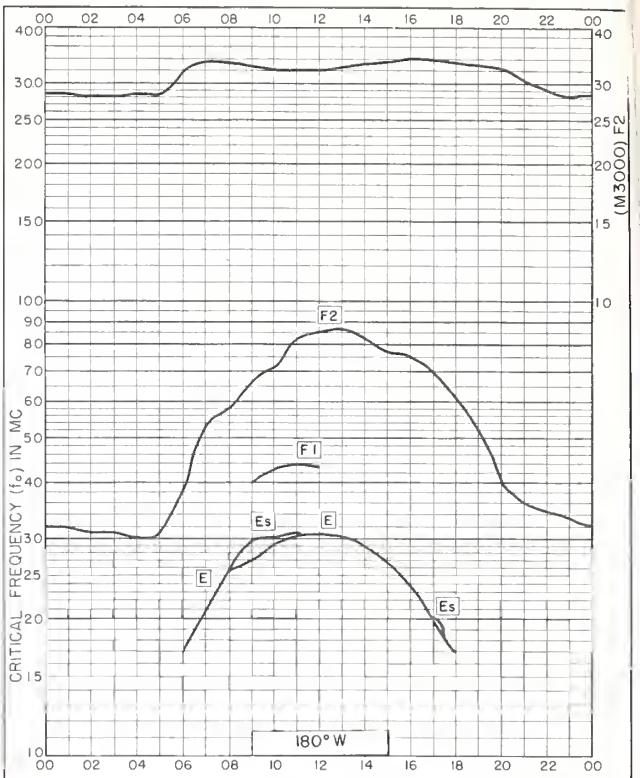


Fig. 2. ADAK, ALASKA
51.9°N, 176.6°W MARCH 1961

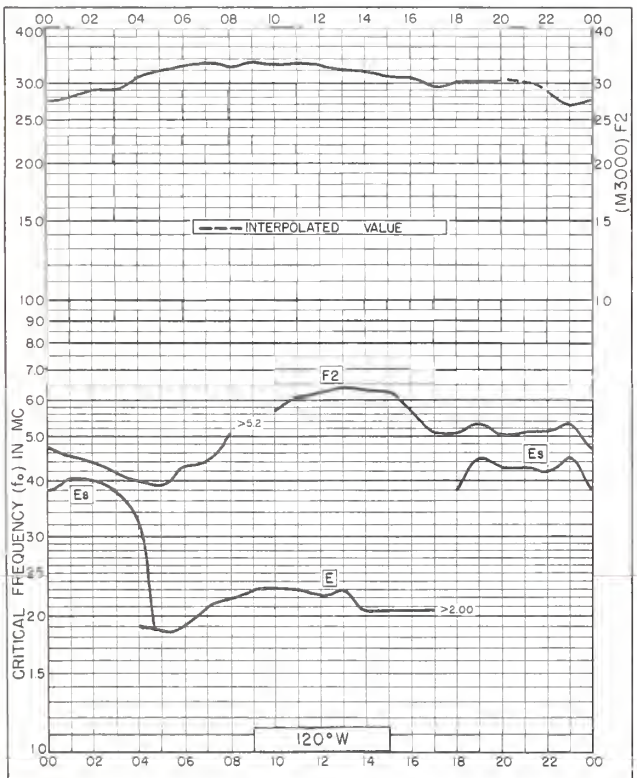


Fig. 3. BYRD STATION
80.0°S, 120.0°W MARCH 1961

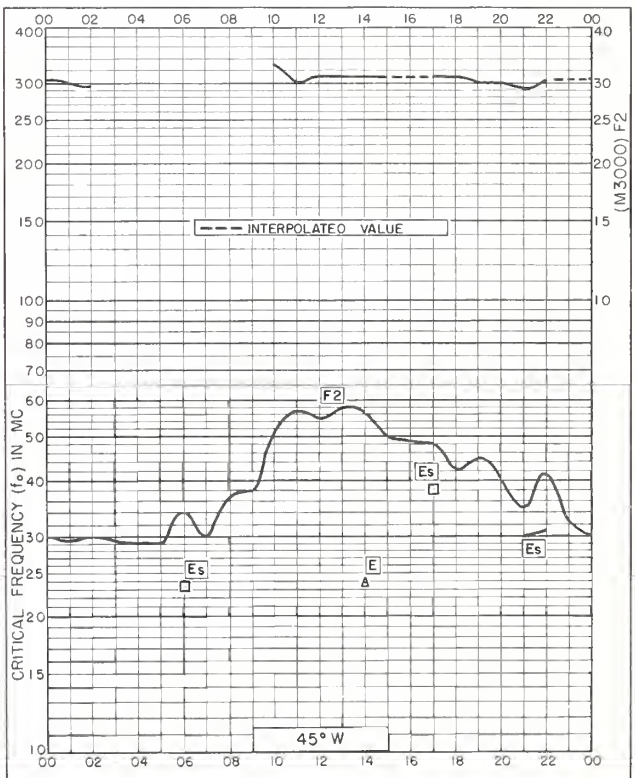


Fig. 4. GODHAVN, GREENLAND
69.3°N, 53.5°W FEBRUARY 1961



Fig. 5. FAIRBANKS, ALASKA
64.9°N, 147.8°W FEBRUARY 1961

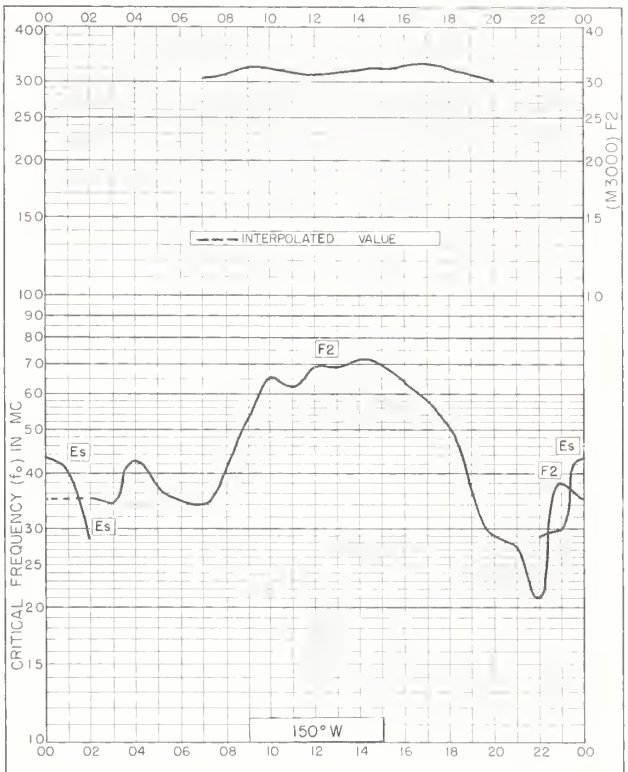


Fig. 6. ANCHORAGE, ALASKA
61.2°N, 149.9°W FEBRUARY 1961

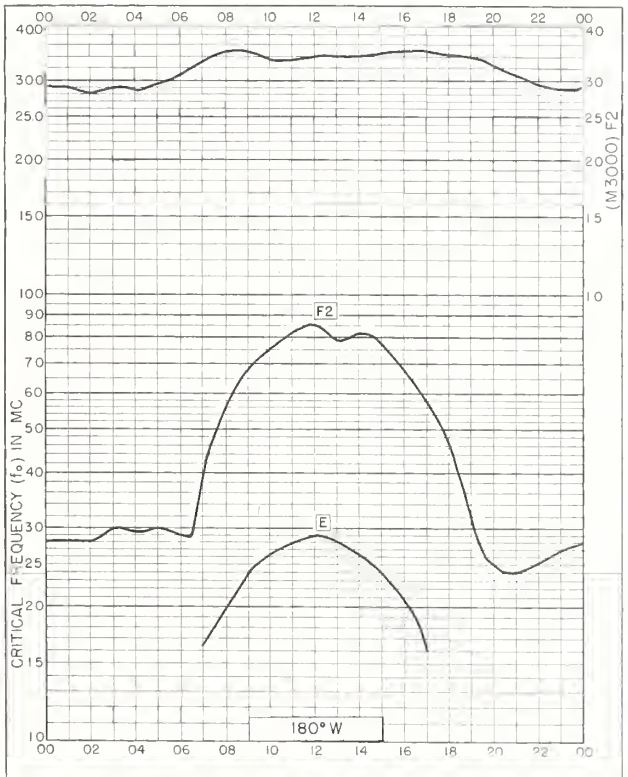


Fig. 7. ADAK, ALASKA
51.9°N, 176.6°W FEBRUARY 1961

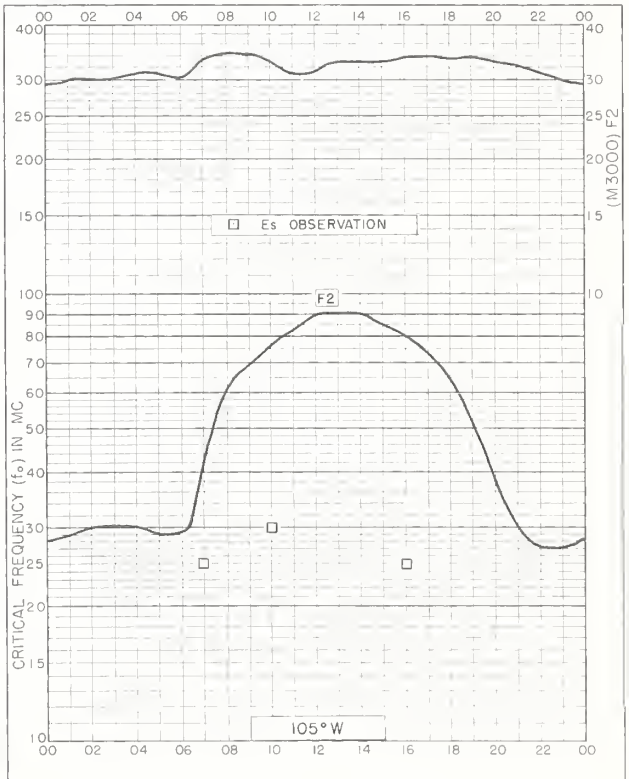


Fig. 8. BOULDER, COLORADO
40.0°N, 105.3°W FEBRUARY 1961

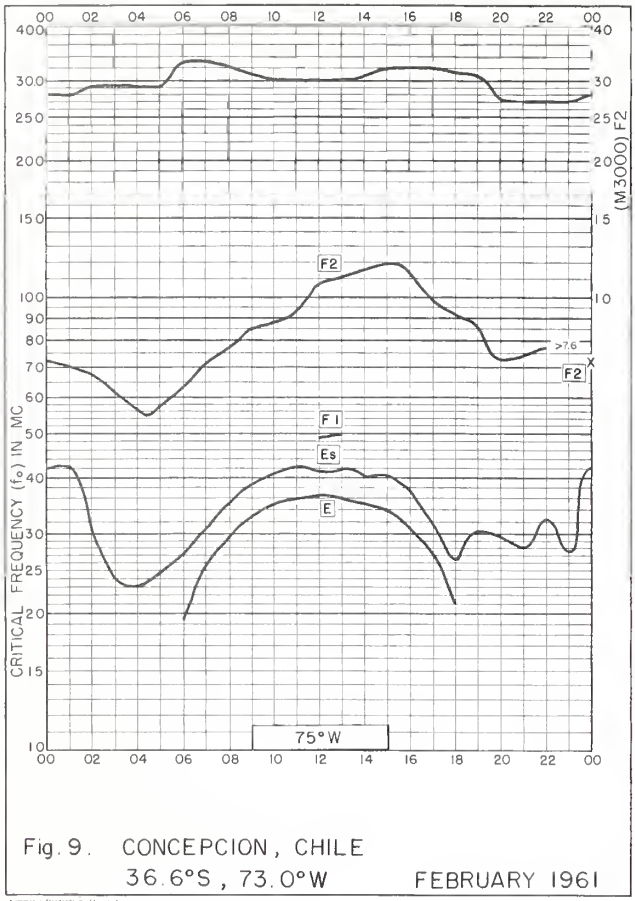


Fig. 9. CONCEPCION, CHILE
36.6°S, 73.0°W FEBRUARY 1961

NBS 503

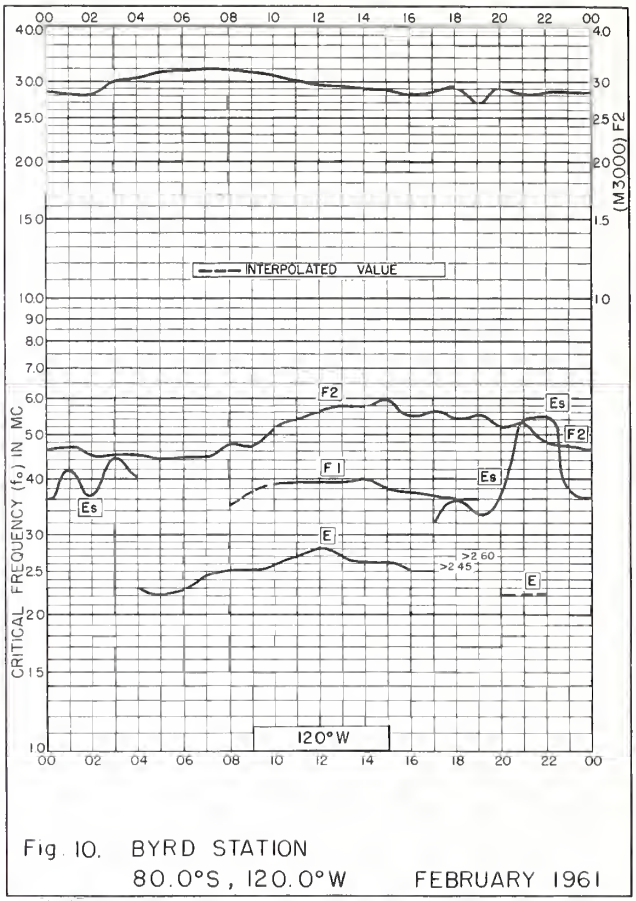


Fig. 10. BYRD STATION
80.0°S, 120.0°W FEBRUARY 1961

NBS 503

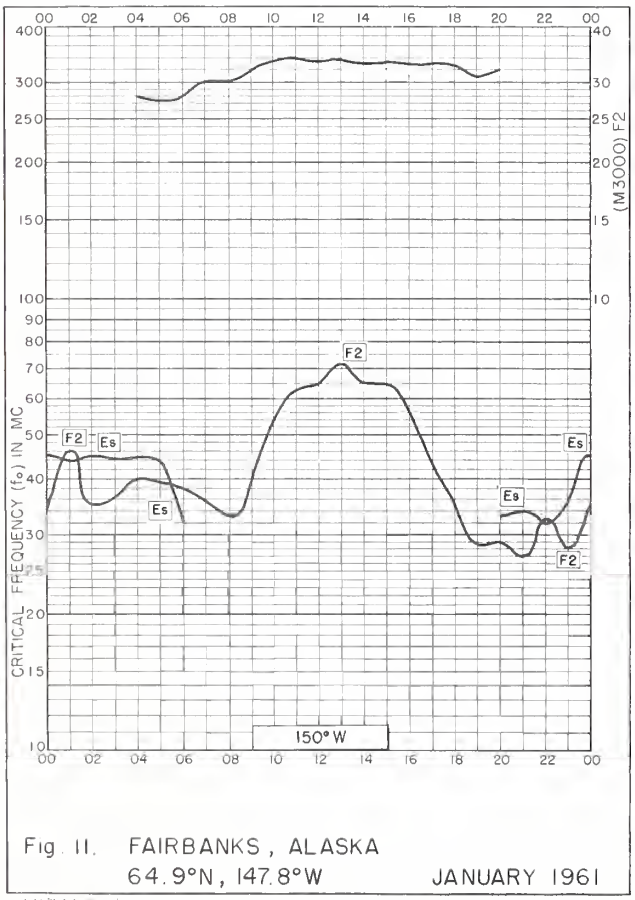


Fig. 11. FAIRBANKS, ALASKA
64.9°N, 147.8°W JANUARY 1961

NBS 503

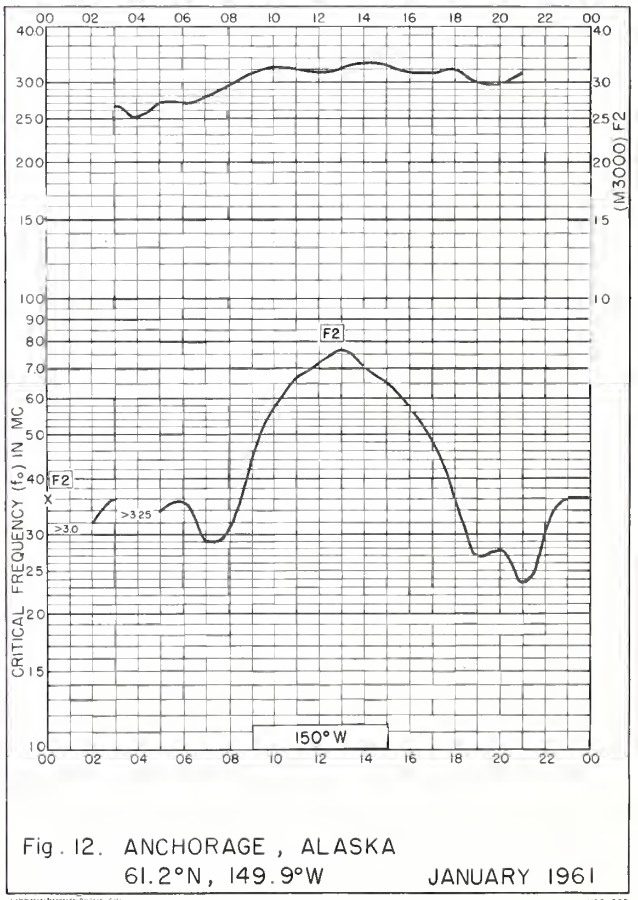


Fig. 12. ANCHORAGE, ALASKA
61.2°N, 149.9°W JANUARY 1961

NBS 503

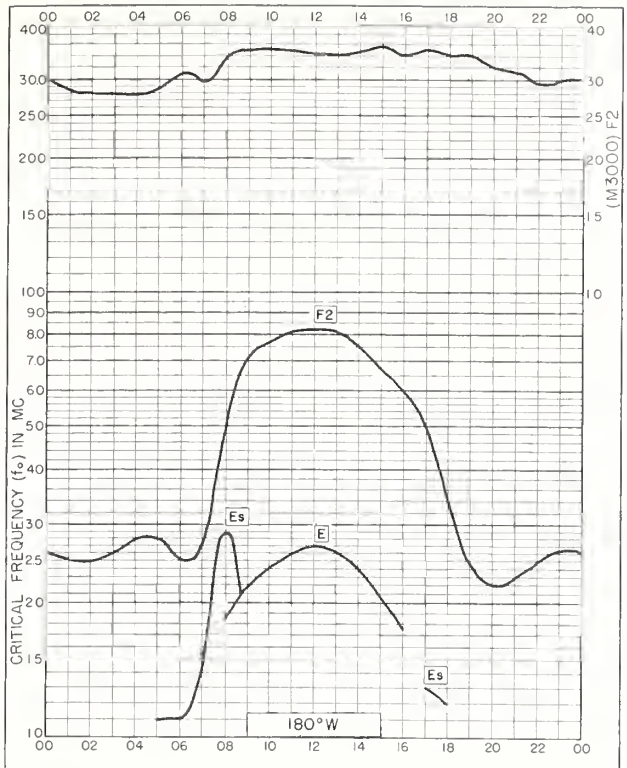


Fig. 13. ADAK, ALASKA
51.9°N, 176.6°W JANUARY 1961

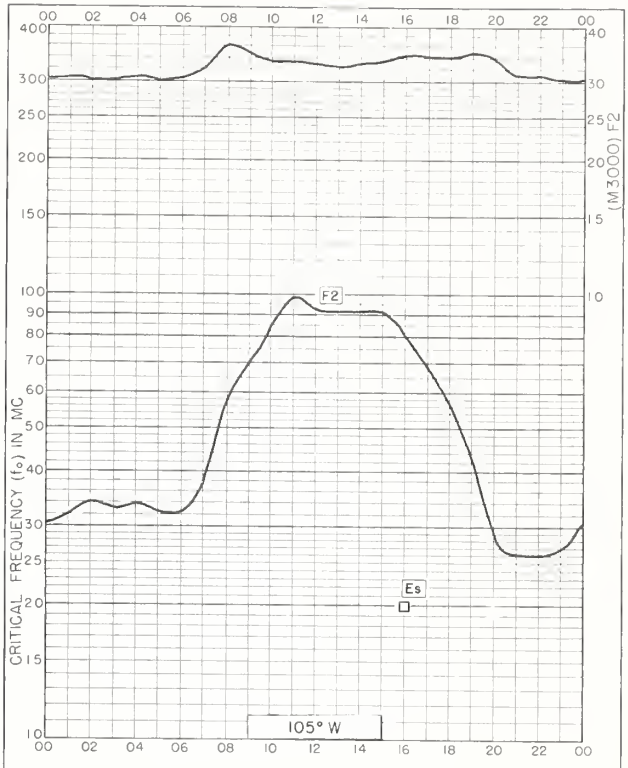


Fig. 14. BOULDER, COLORADO
40.0°N, 105.3°W JANUARY 1961

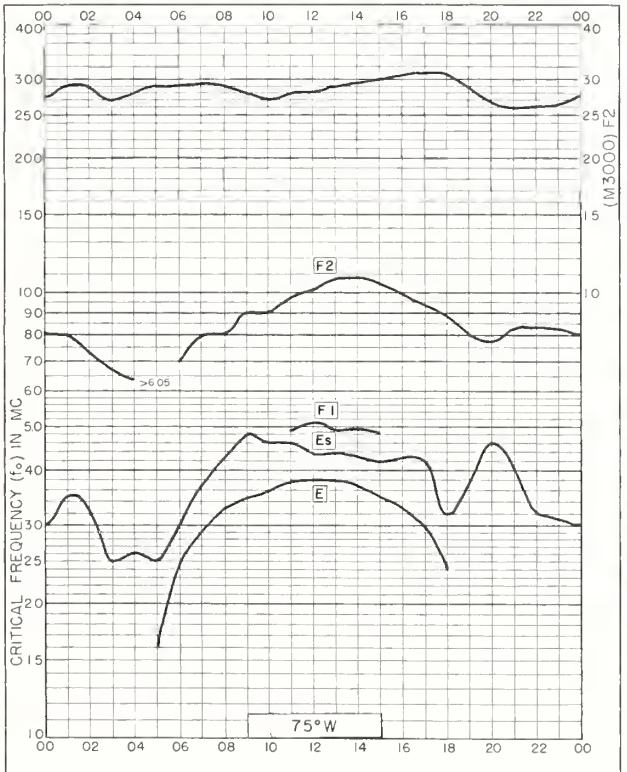


Fig. 15. CONCEPCION, CHILE
36.6°S, 73.0°W JANUARY 1961

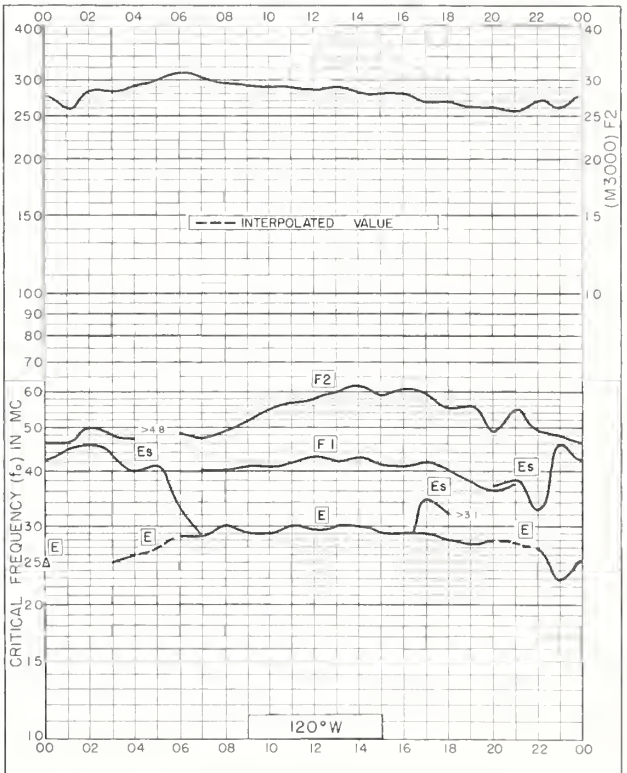


Fig. 16. BYRD STATION
80.0°S, 120.0°W JANUARY 1961

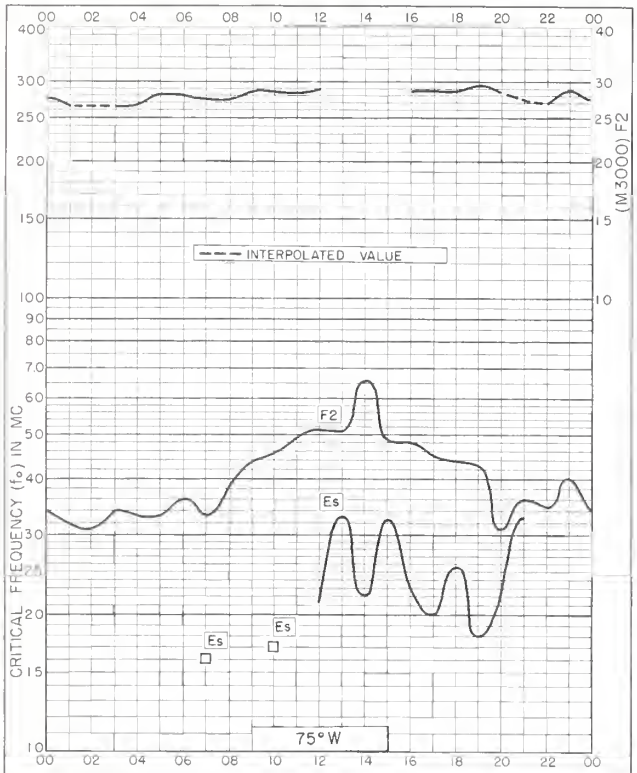


Fig. 17. THULE, GREENLAND
76.0°N, 68.0°W DECEMBER 1960

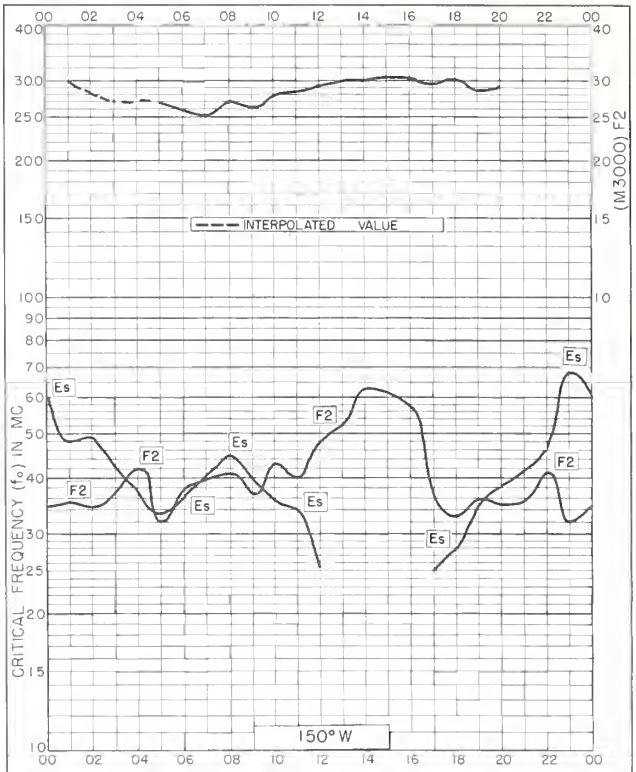


Fig. 18. POINT BARROW, ALASKA
71.3°N, 156.8°W DECEMBER 1960

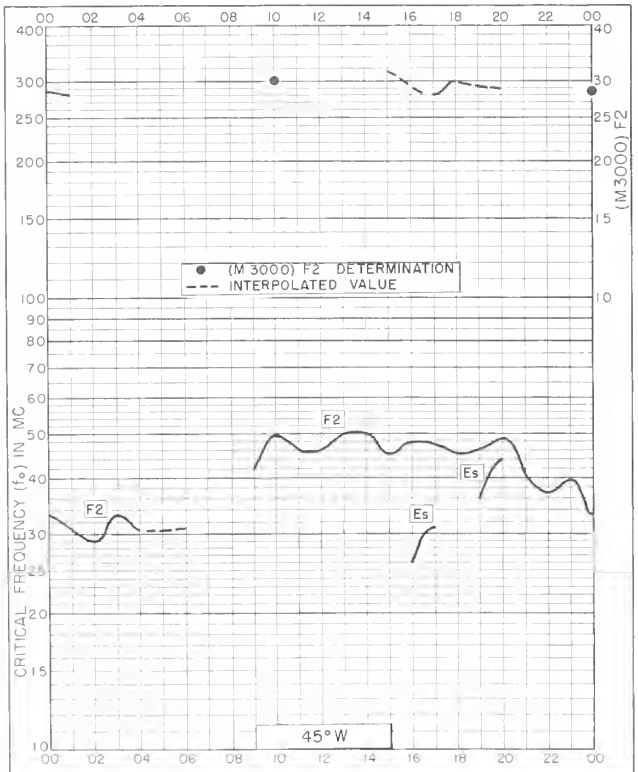


Fig. 19. GODHAVN, GREENLAND
69.3°N, 53.5°W DECEMBER 1960

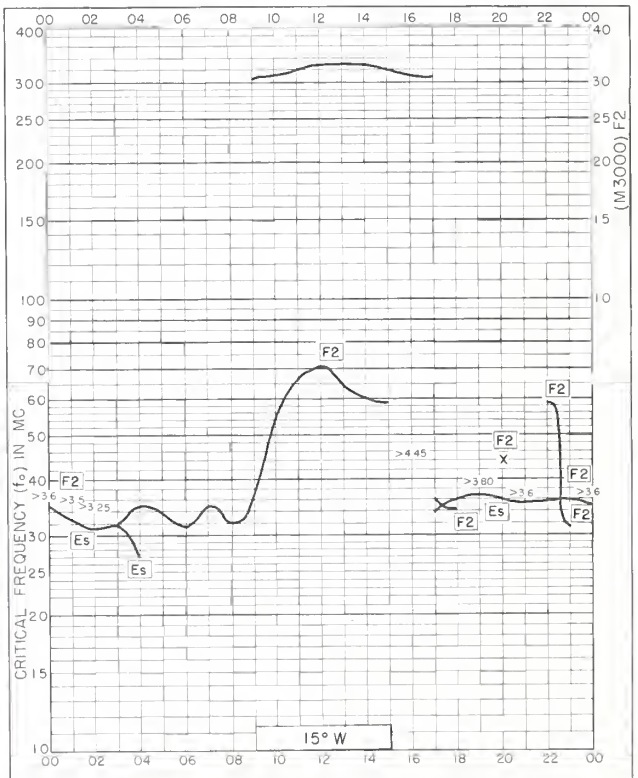


Fig. 20. REYKJAVIK, ICELAND
64.1°N, 21.8°W DECEMBER 1960

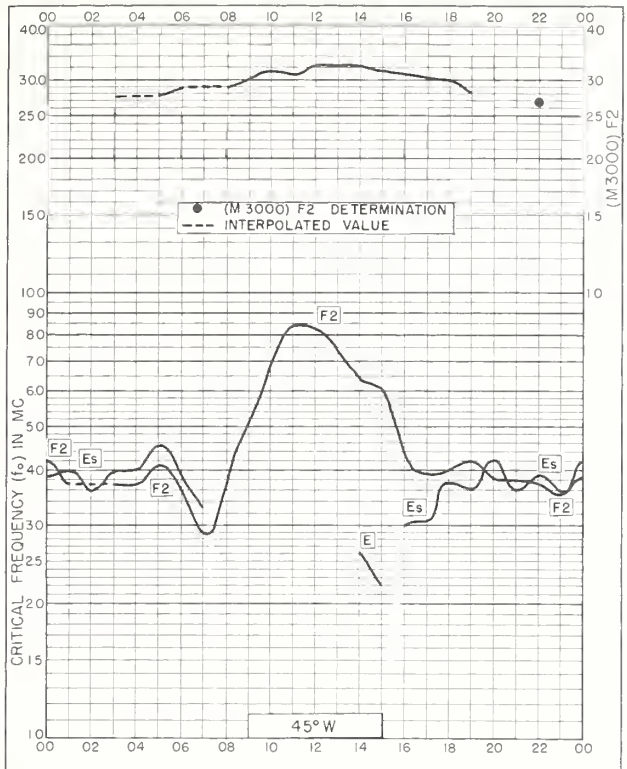


Fig. 21. NARSSARSSUAQ, GREENLAND
61.2°N, 45.4°W DECEMBER 1960

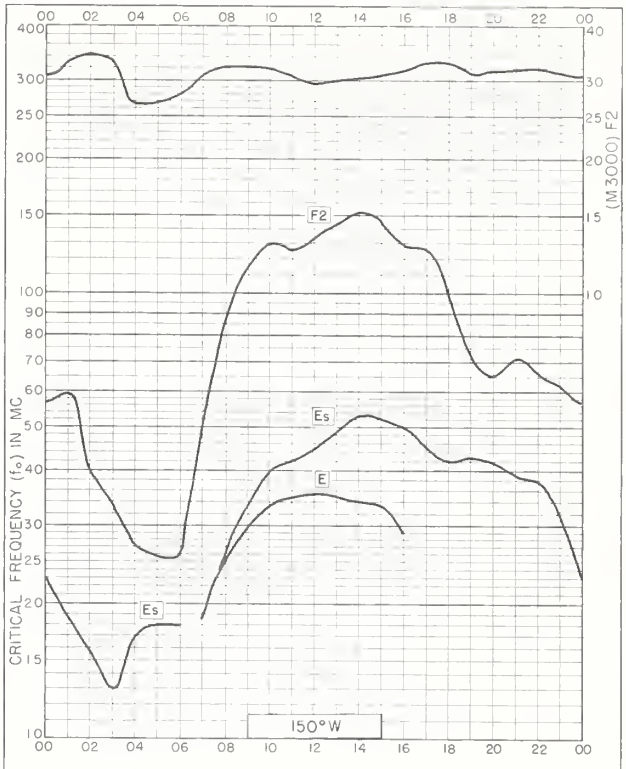


Fig. 22. MAUI, HAWAII
20.8°N, 156.5°W DECEMBER 1960

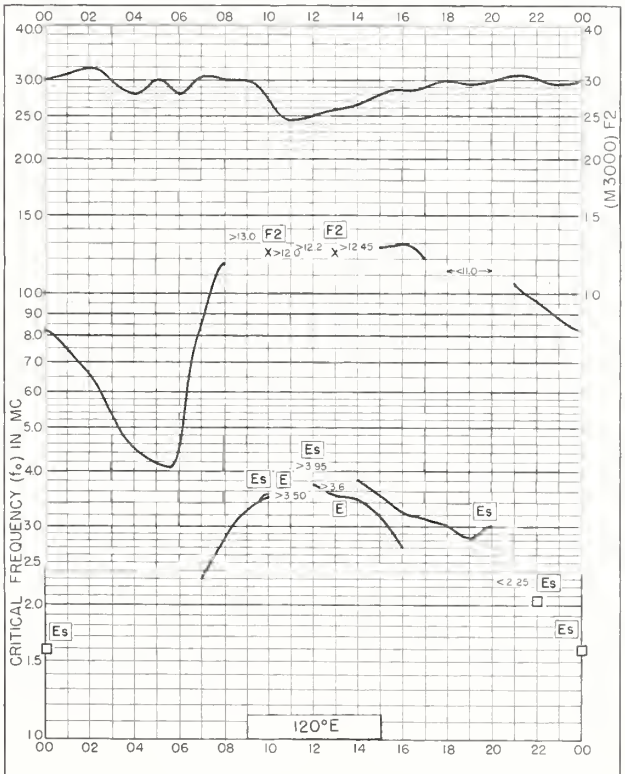


Fig. 23. BAGUIO, P. I.
16.4°N, 120.6°E DECEMBER 1960

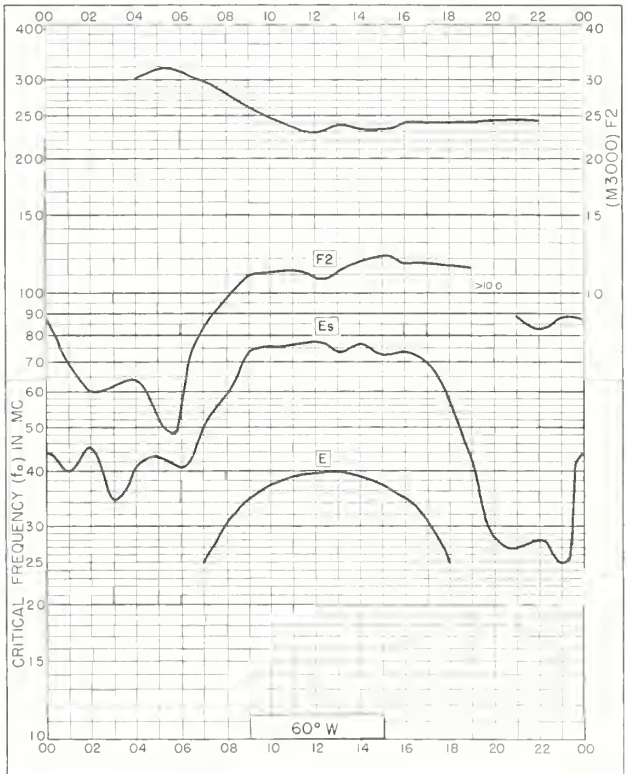


Fig. 24. La PAZ, BOLIVIA
16.5°S, 68.1°W DECEMBER 1960

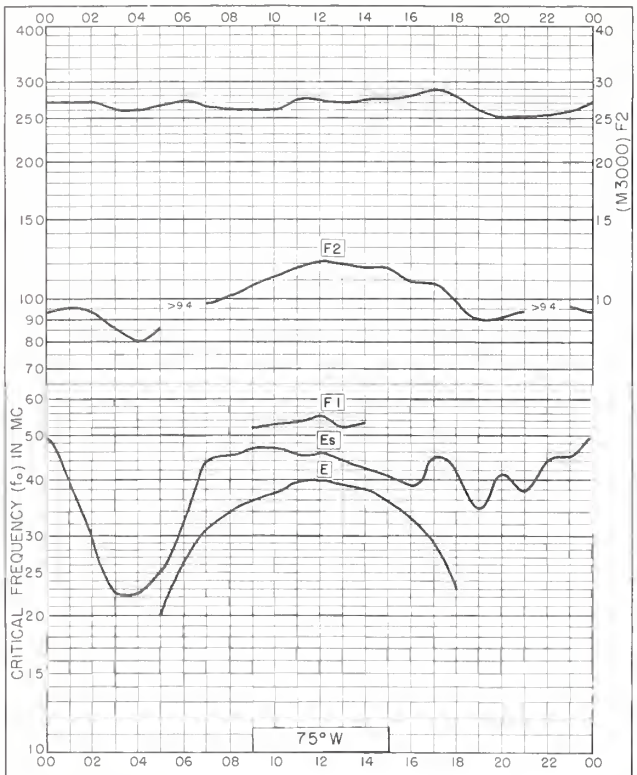


Fig. 25. CONCEPCION, CHILE
36.6°S, 73.0°W DECEMBER 1960

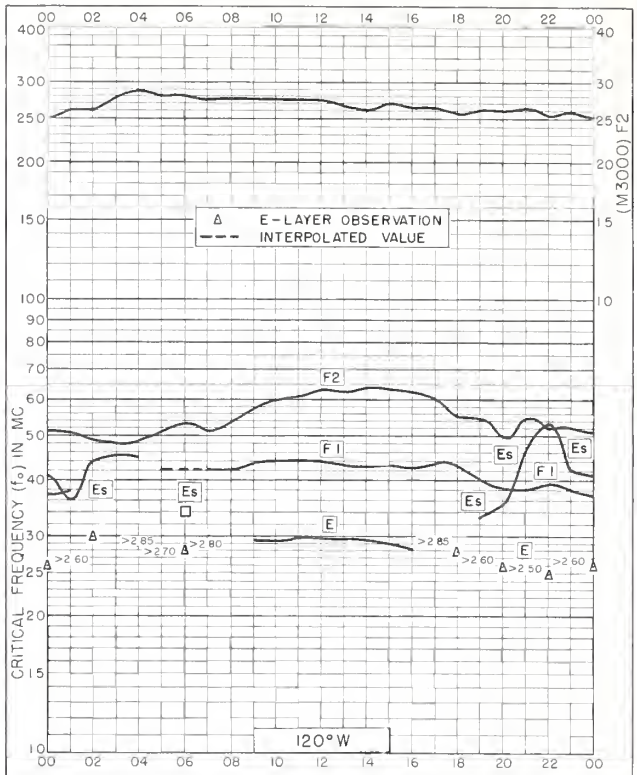


Fig. 26. BYRD STATION
80.0°S, 120.0°W DECEMBER 1960

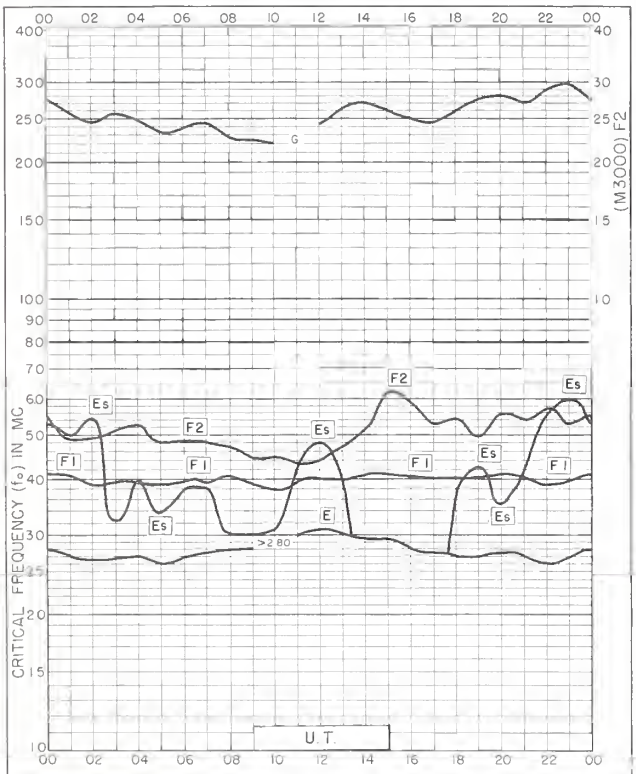


Fig. 27. POLE STATION
90°S DECEMBER 1960

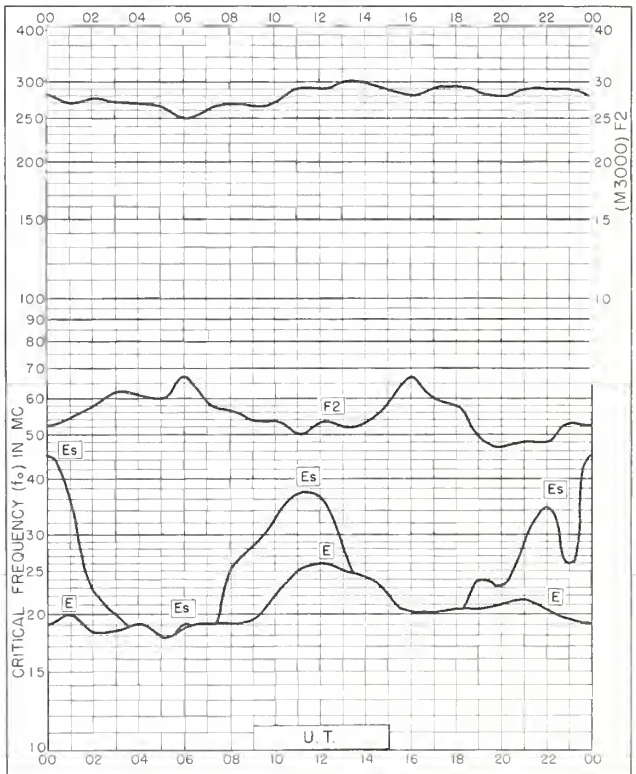


Fig. 28. POLE STATION
90.0°S MARCH 1960

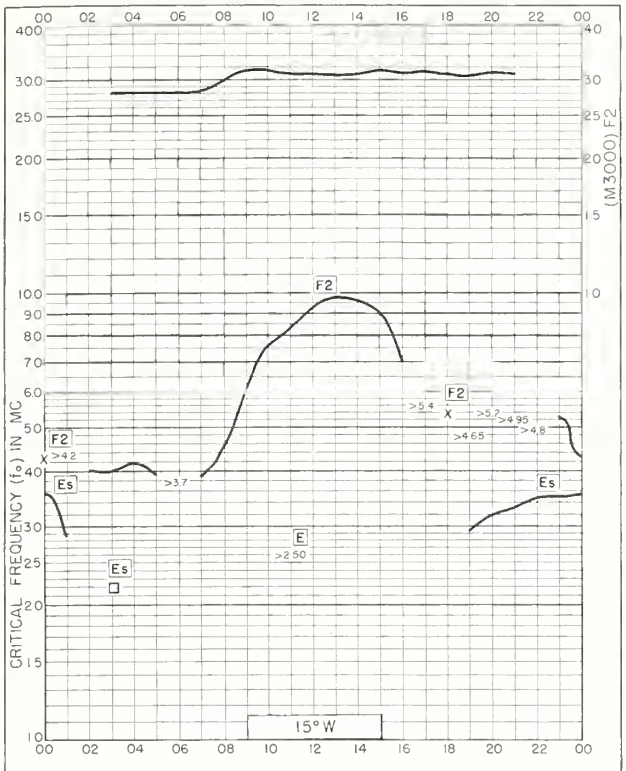


Fig. 29. REYKJAVIK, ICELAND
64.1°N, 21.8°W FEBRUARY 1960

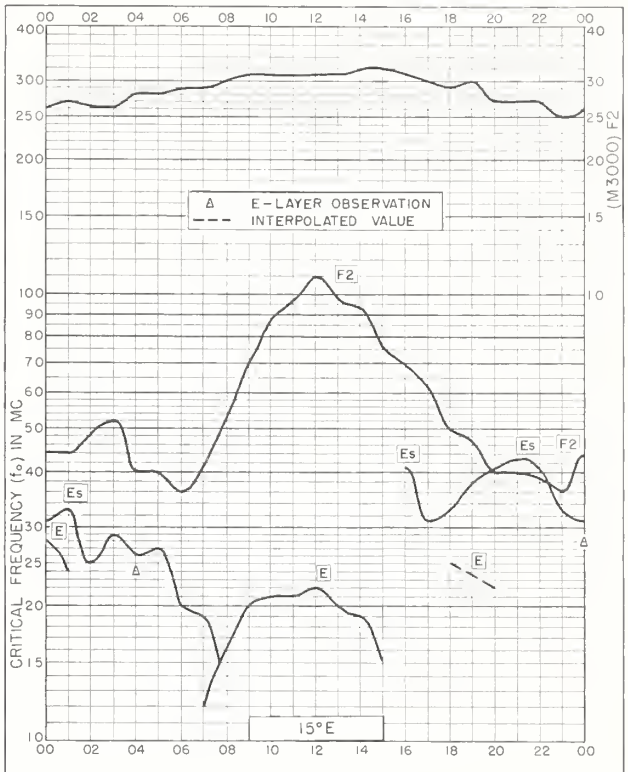


Fig. 30. LULEA, SWEDEN
65.6°N, 22.1°E NOVEMBER 1959

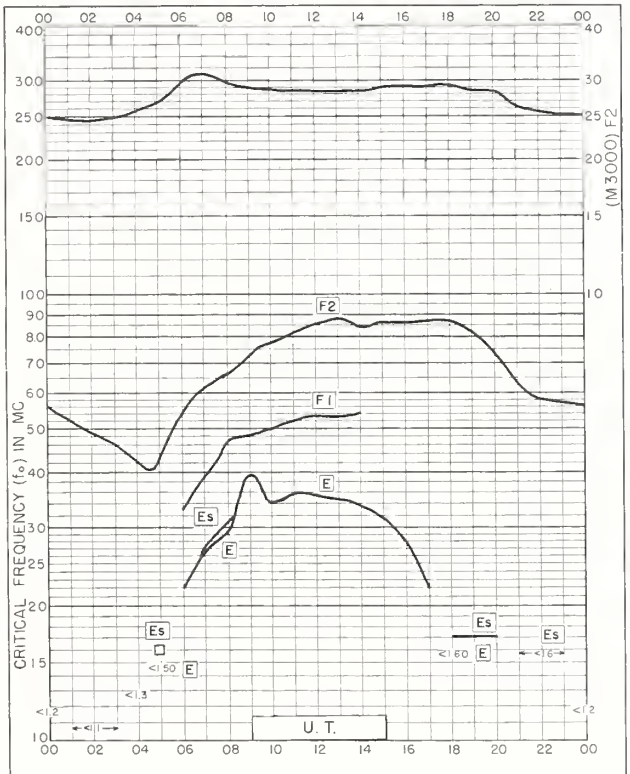


Fig. 31. DOURBES, BELGIUM
50.1°N, 4.6°E SEPTEMBER 1959

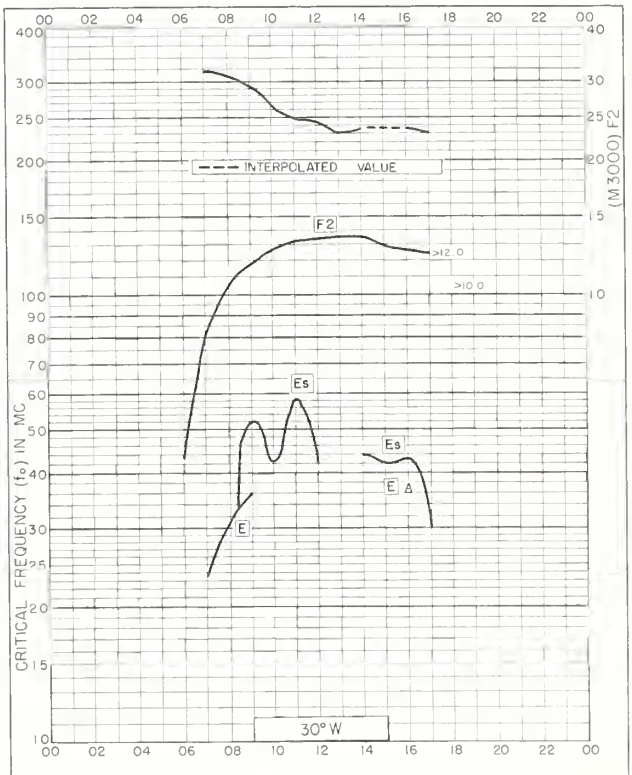


Fig. 32. NATAL BRAZIL
5.3°S, 35.1°W AUGUST 1959

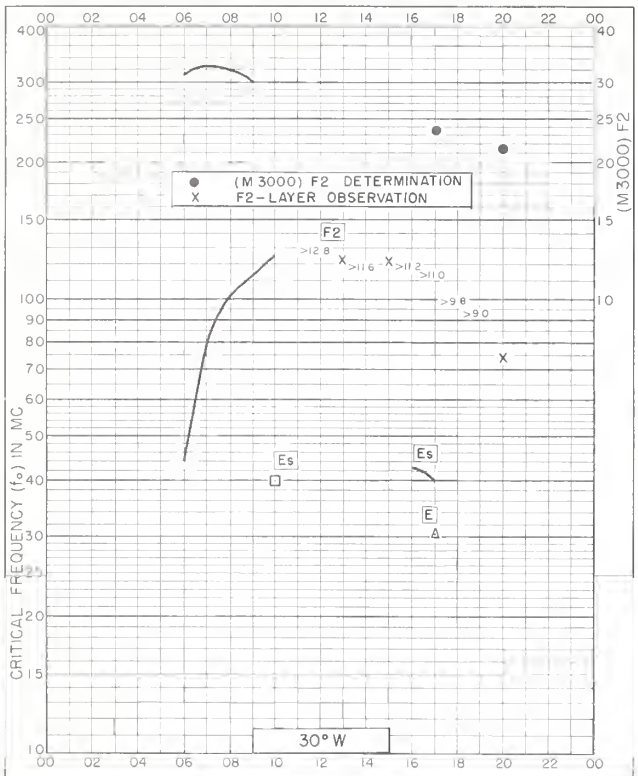


Fig. 33. NATAL, BRAZIL
5.3°S, 35.1°W JULY 1959



Fig. 34. PRUHONICE, CHECHOSLOVAKIA
50.0°N, 14.6°E JUNE 1959

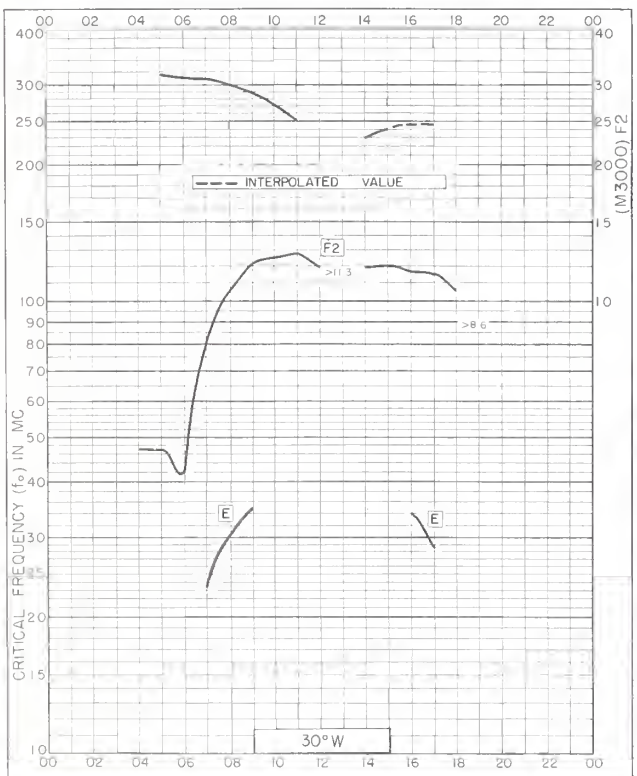


Fig. 35. NATAL, BRAZIL
5.3°S, 35.1°W JUNE 1959

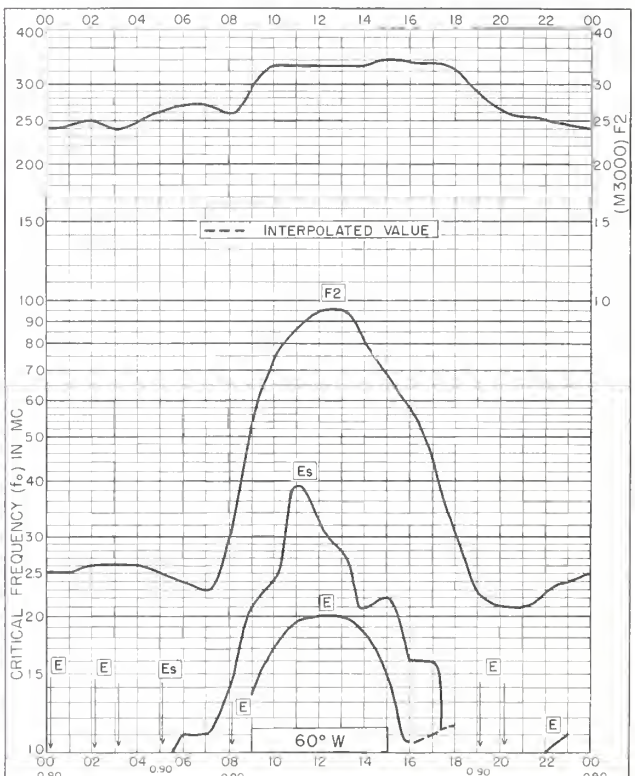


Fig. 36. PORT LOCKROY
64.8°S, 63.5°W JUNE 1959

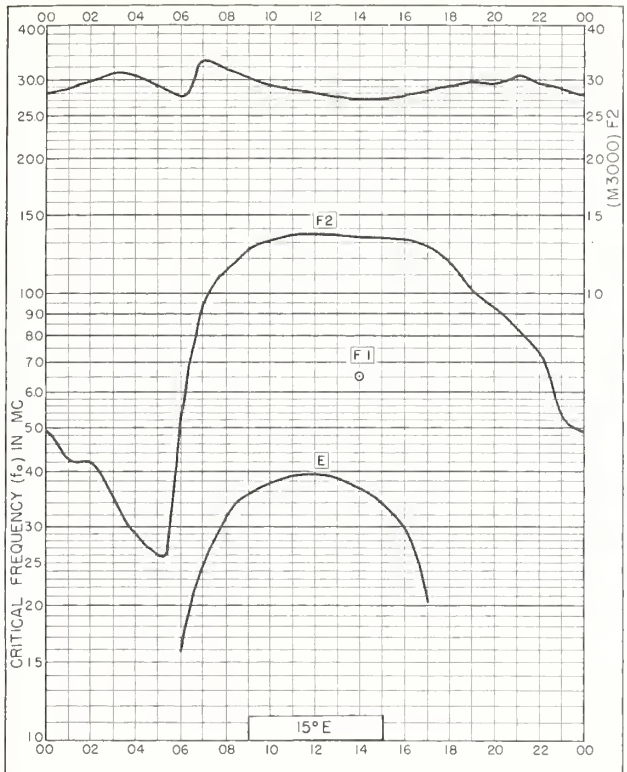


Fig. 37. TSUMEB, SOUTH W. AFRICA
19.2°S, 17.7°E MAY 1959

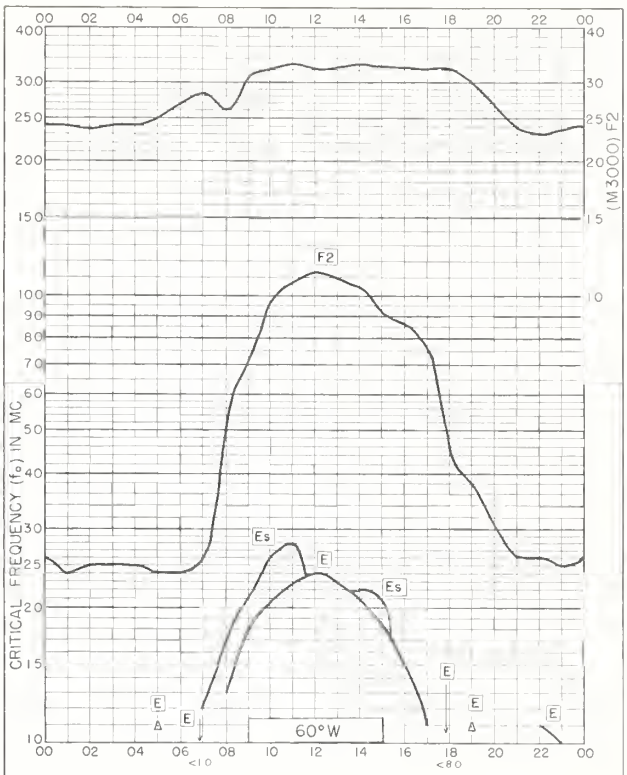


Fig. 38. PORT LOCKROY
64.8°S, 63.5°W MAY 1959

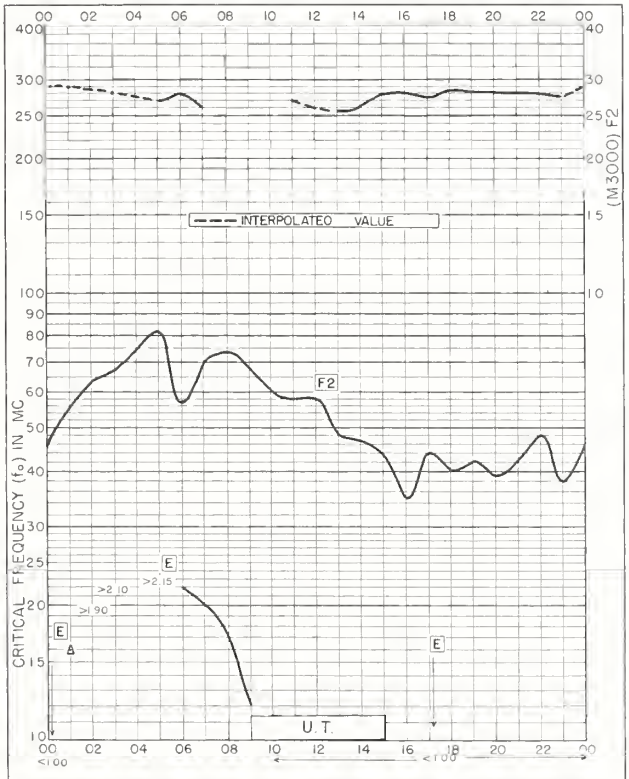


Fig. 39. WILKES STATION
66.9°S, 110.5°E MAY 1959

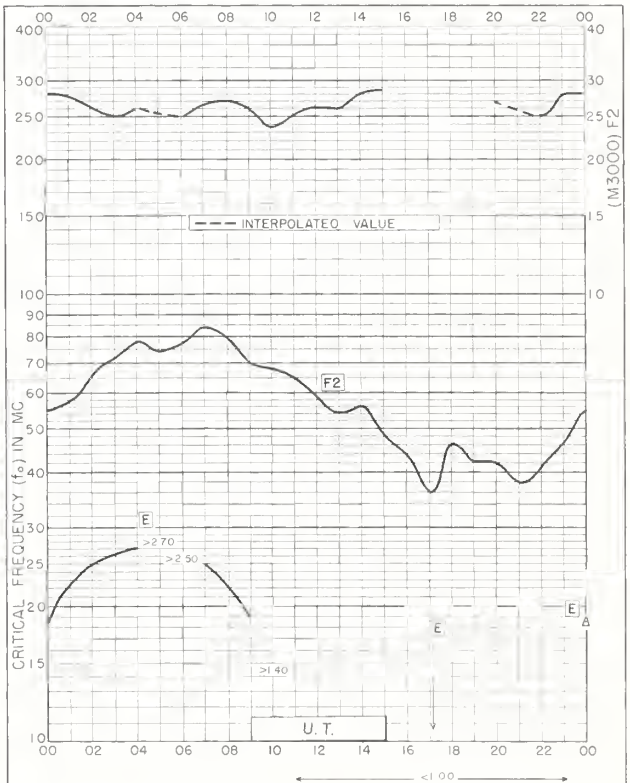


Fig. 40. WILKES STATION
66.9°S, 110.5°E APRIL 1959

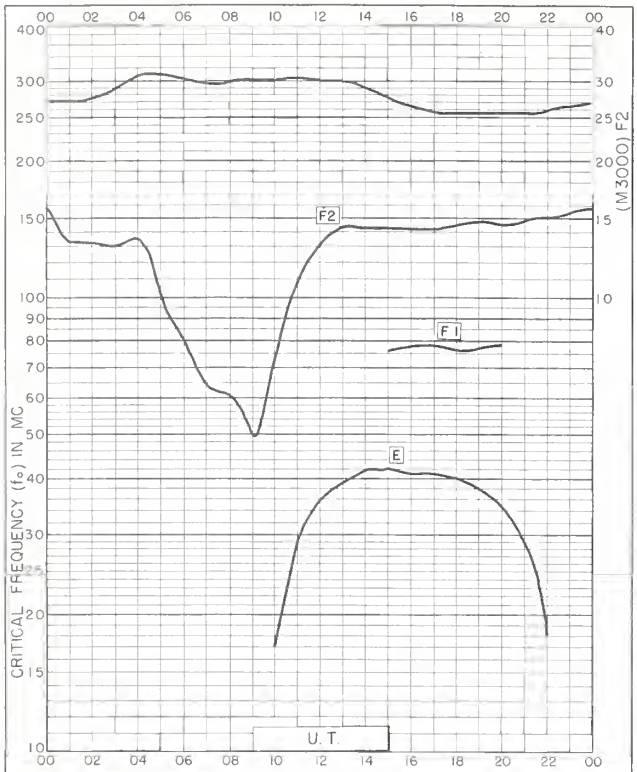


Fig. 41. PARAMARIBO, SURINAM
5.8°N, 55.2°W FEBRUARY 1959



Fig. 42. HOLLANDIA, NETHERLANDS NEW GUINEA
2.5°S, 140.8°E FEBRUARY 1959

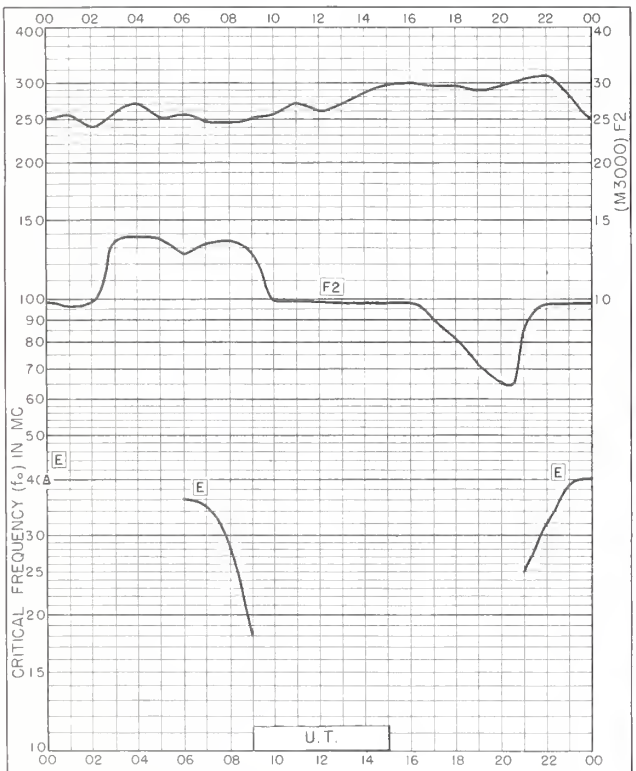


Fig. 43. HOLLANDIA, NETHERLANDS NEW GUINEA
2.5°S, 140.8°E JANUARY 1959



Fig. 44. EUREKA, CANADA
80.0°N, 85.9°W DECEMBER 1957

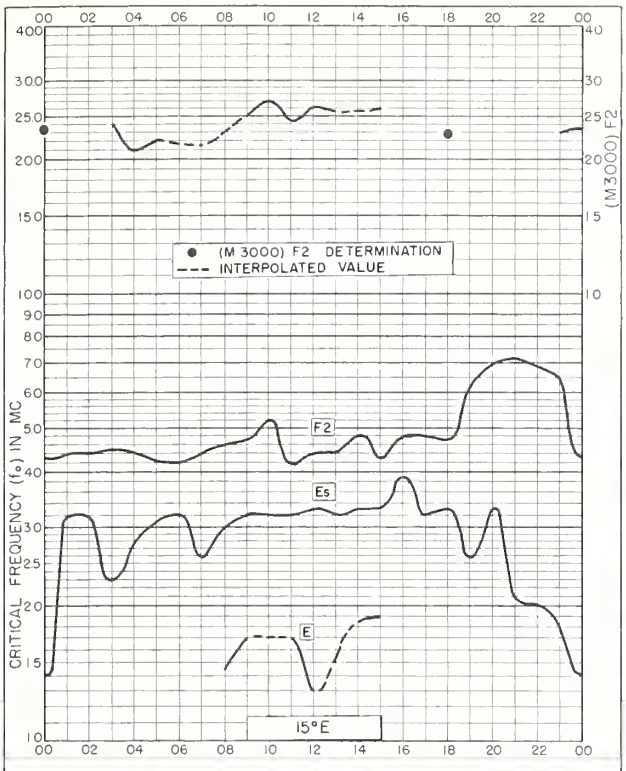


Fig. 45. SVALBARD, NORWAY
78.2°N, 15.7°E DECEMBER 1957



Fig. 46. DOURBES, BELGIUM
50.1°N, 4.6°E DECEMBER 1957

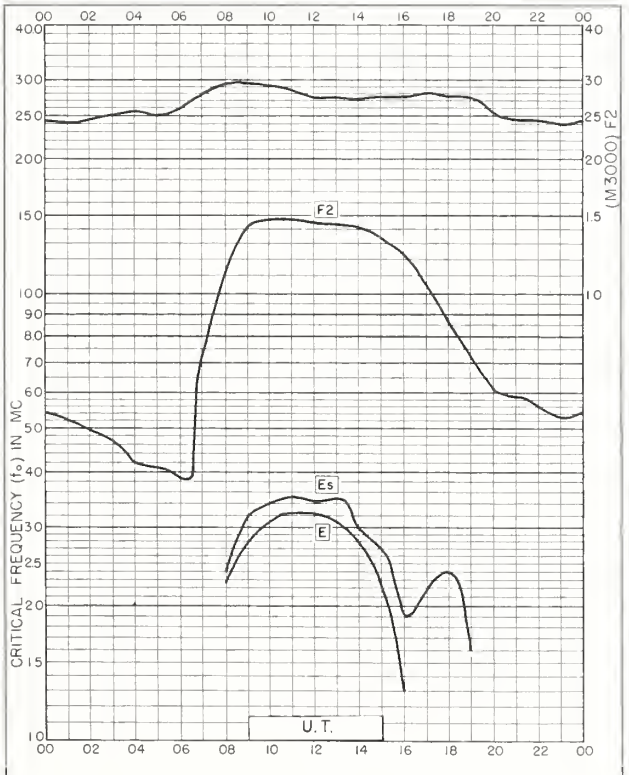


Fig. 47. FREIBURG, GERMANY
48.1°N, 7.6°E DECEMBER 1957



Fig. 48. DELHI, INDIA
28.6°N, 77.2°E DECEMBER 1957

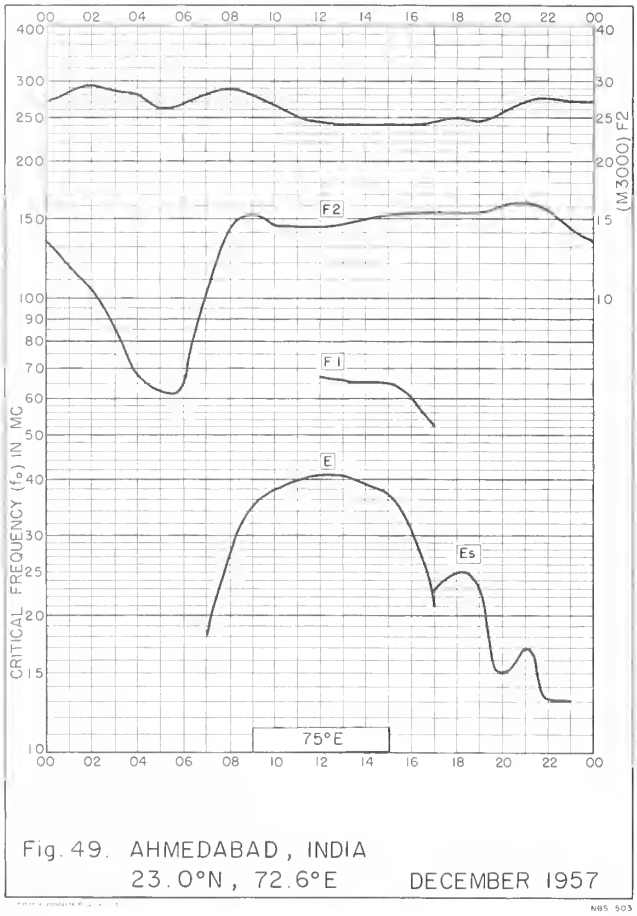


Fig. 49. AHMEDABAD, INDIA
23.0°N, 72.6°E DECEMBER 1957

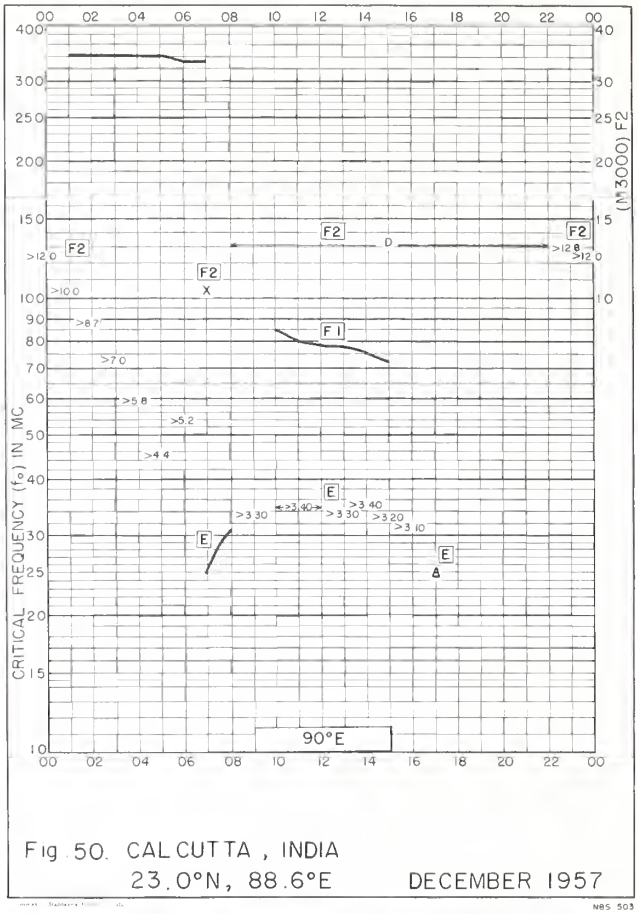


Fig. 50. CALCUTTA, INDIA
23.0°N, 88.6°E DECEMBER 1957

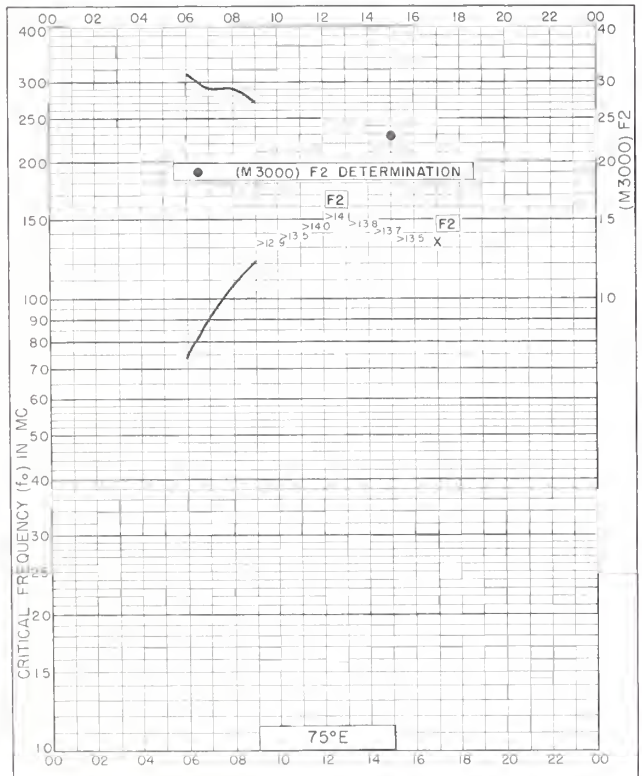


Fig. 51. BOMBAY, INDIA
19.0°N, 72.8°E DECEMBER 1957

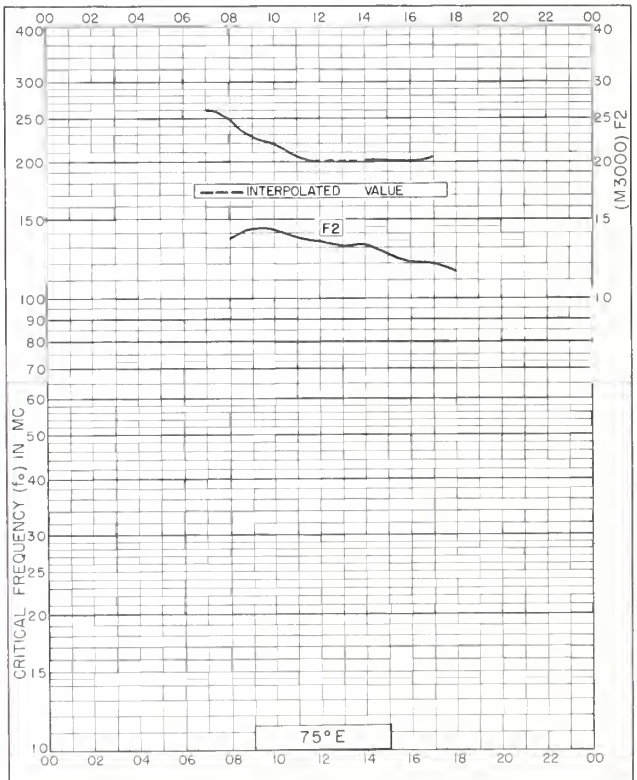


Fig. 52. MADRAS, INDIA
13.1°N, 80.3°E DECEMBER 1957

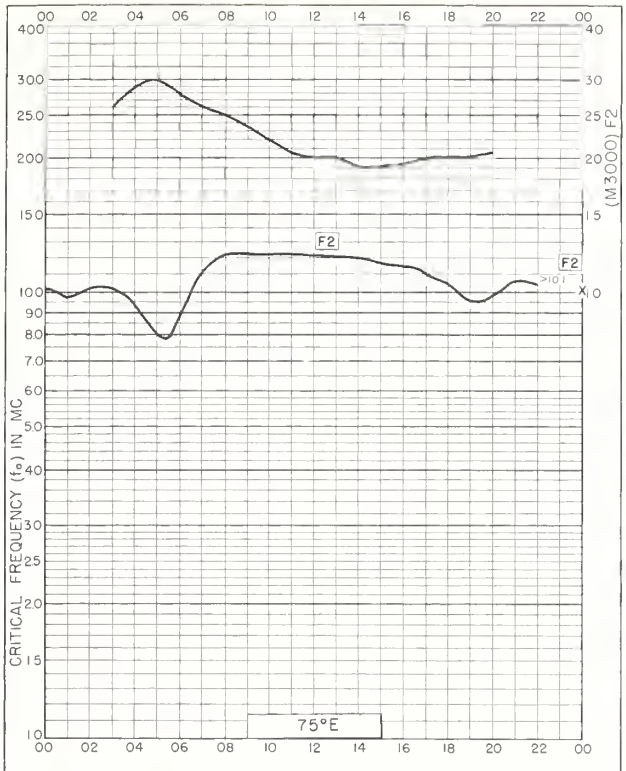


Fig. 53. TIRUCHY, INDIA
10.8°N, 78.7°E DECEMBER 1957

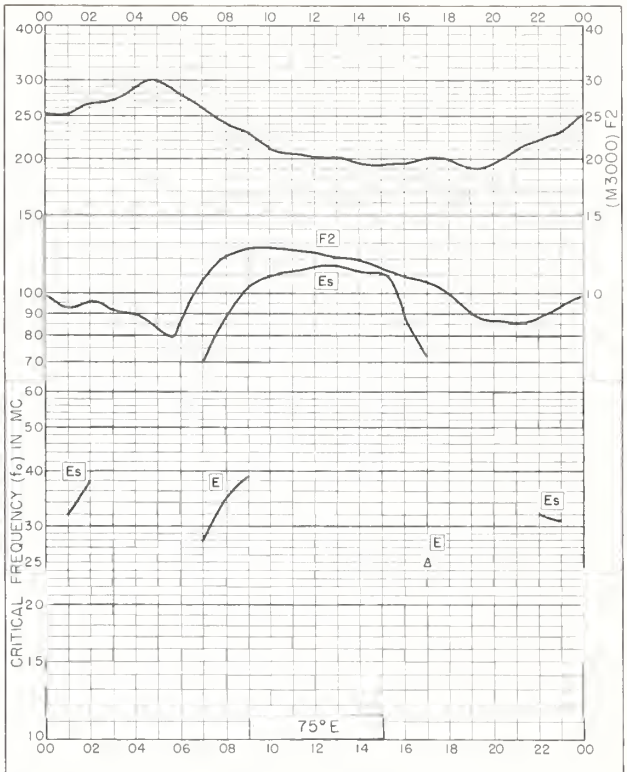


Fig. 54. KODAIKANAL, INDIA
10.2°N, 77.5°E DECEMBER 1957

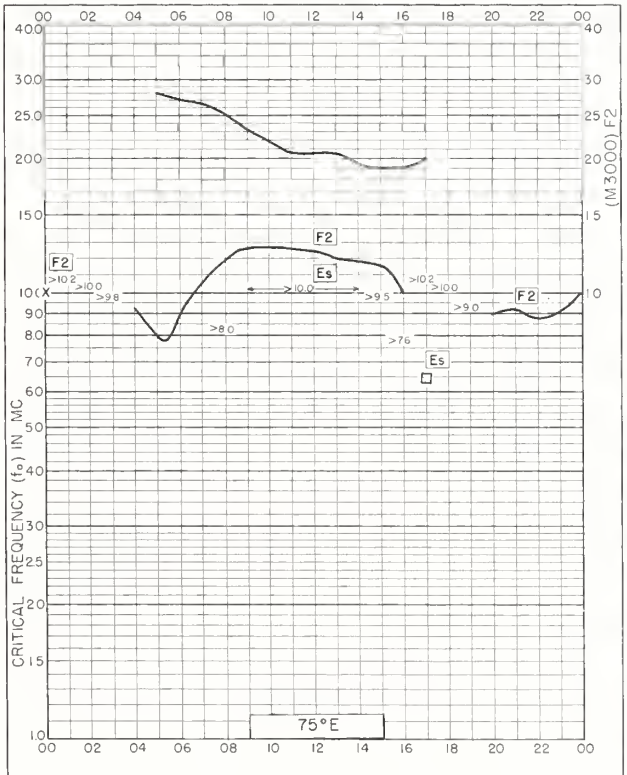


Fig. 55. TRIVANDRUM, INDIA
8.5°N, 77.0°E DECEMBER 1957

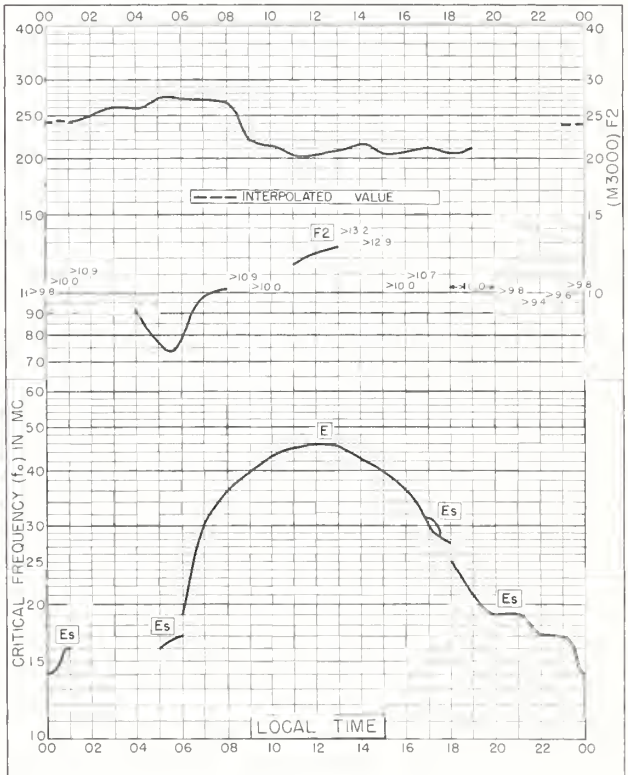


Fig 56. LWIRO, CONGO
2.3°S, 28.8°E DECEMBER 1957



Fig. 57. TUCUMAN, ARGENTINA
26.9°S, 65.4°W DECEMBER 1957

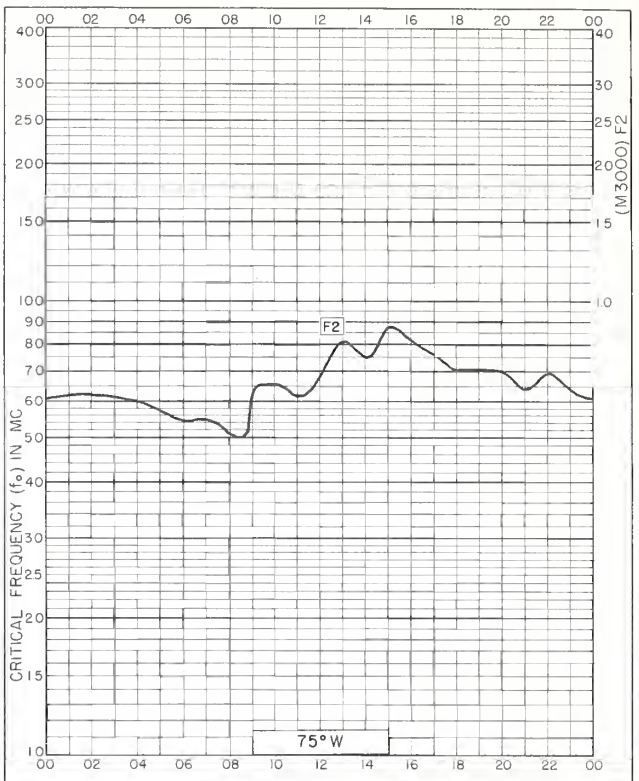


Fig. 58. EUREKA, CANADA
80.0°N, 85.9°W NOVEMBER 1957

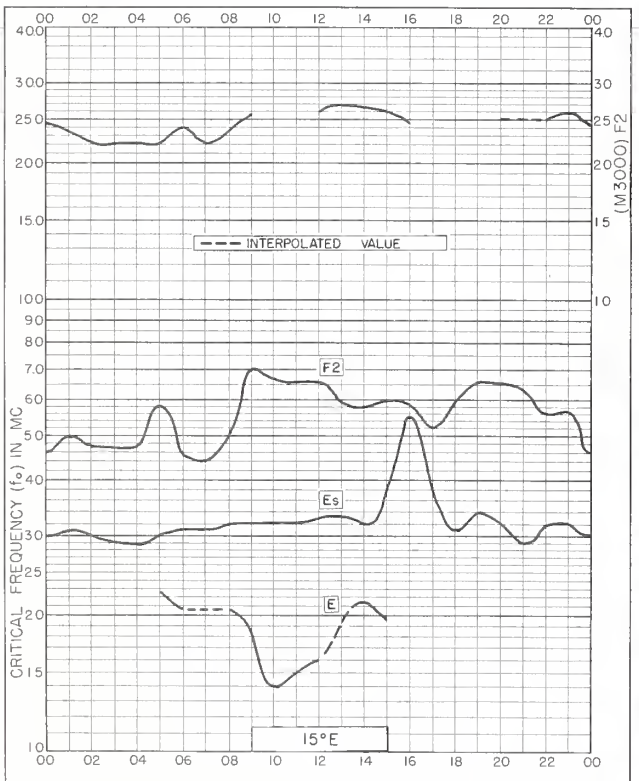


Fig. 59. SVALBARD, NORWAY
78.2°N, 15.7°E NOVEMBER 1957

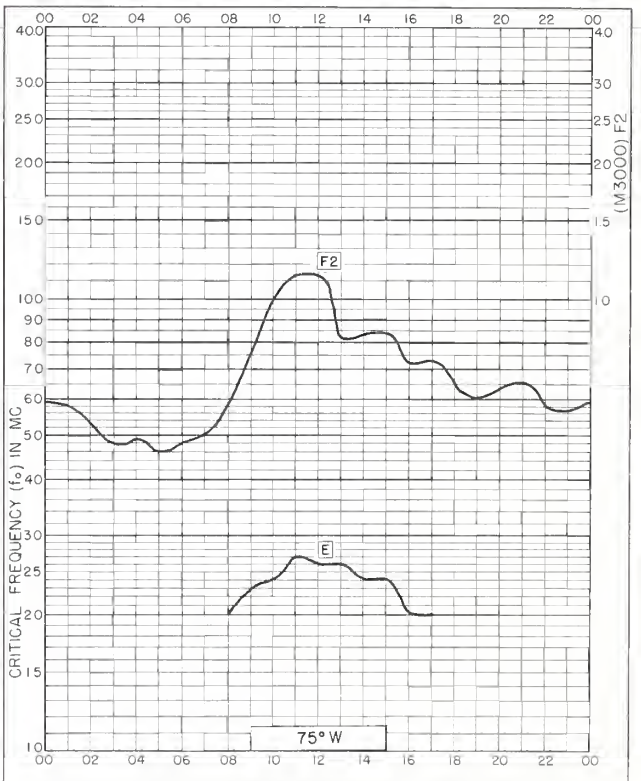


Fig. 60. FROBISHER BAY, CANADA
63.8°N, 68.6°W NOVEMBER 1957

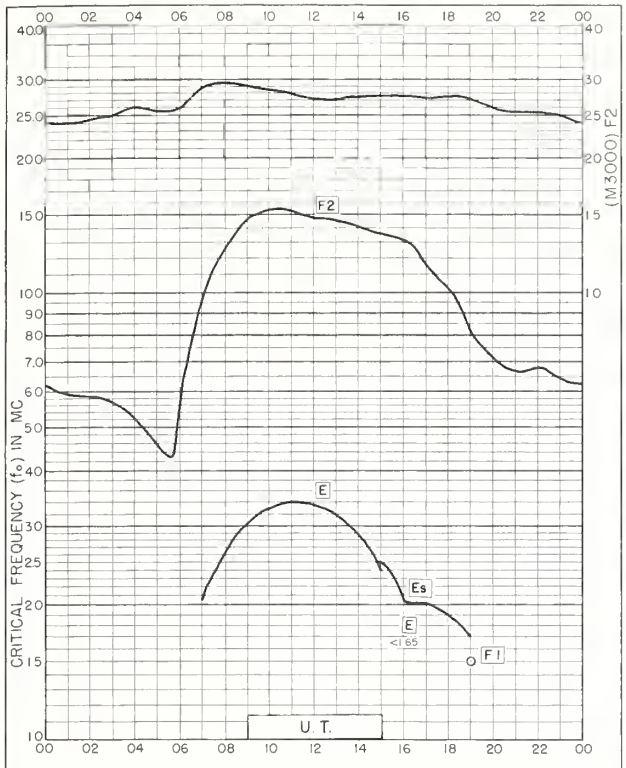


Fig. 61. FREIBURG, GERMANY
48.1°N, 7.6°E NOVEMBER 1957

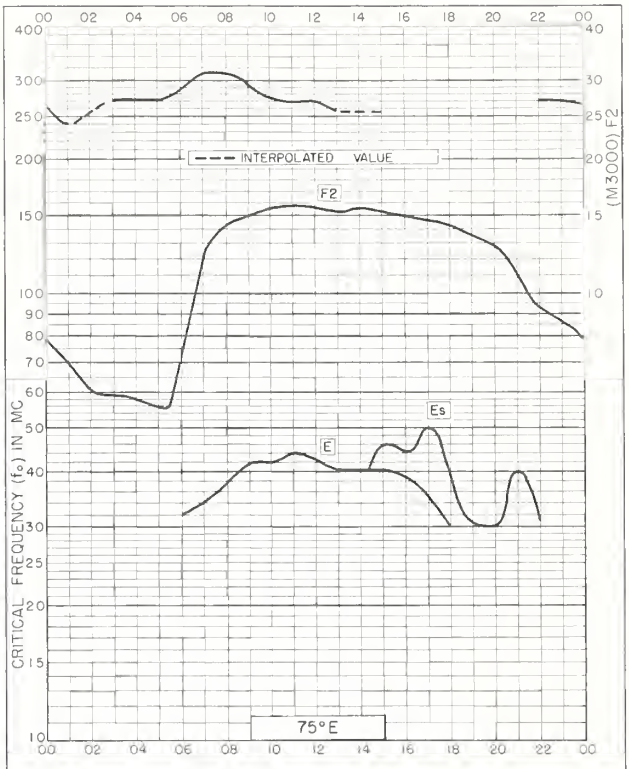


Fig. 62. DELHI, INDIA
28.6°N, 77.2°E NOVEMBER 1957

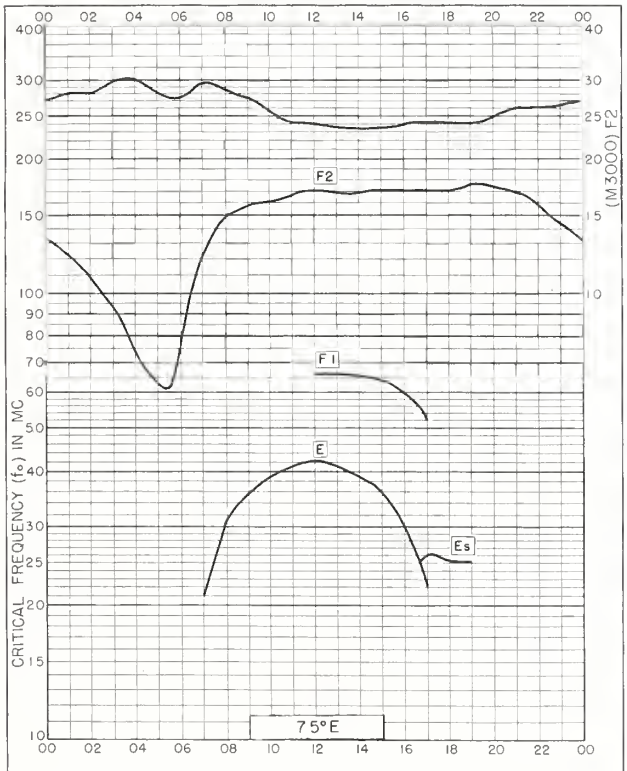


Fig. 63. AHMEDABAD, INDIA
23.0°N, 72.6°E NOVEMBER 1957

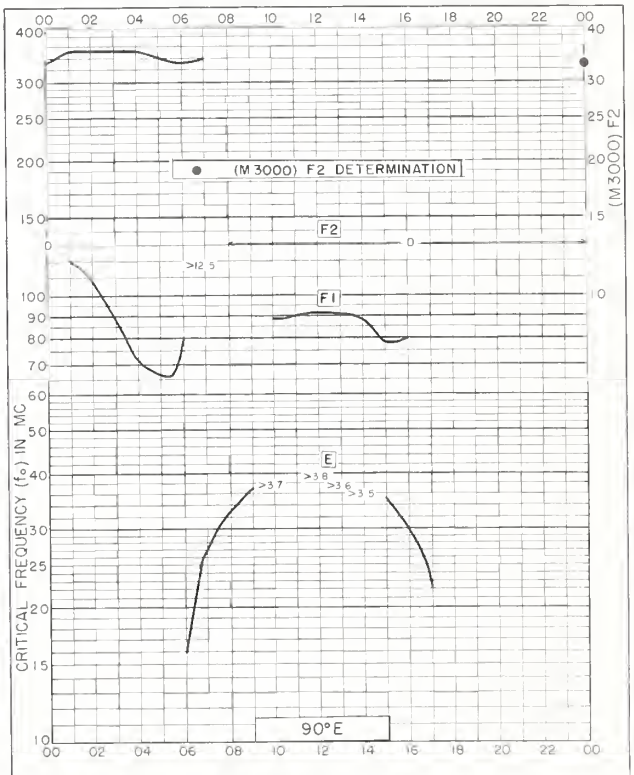


Fig. 64. CALCUTTA, INDIA
23.0°N, 88.6°E NOVEMBER 1957

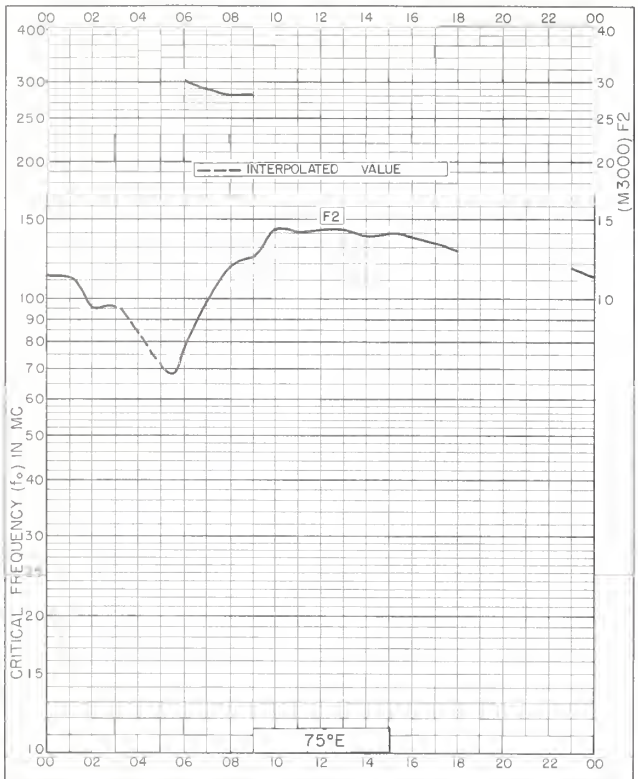


Fig. 65. BOMBAY, INDIA
19.0°N, 72.8°E NOVEMBER 1957

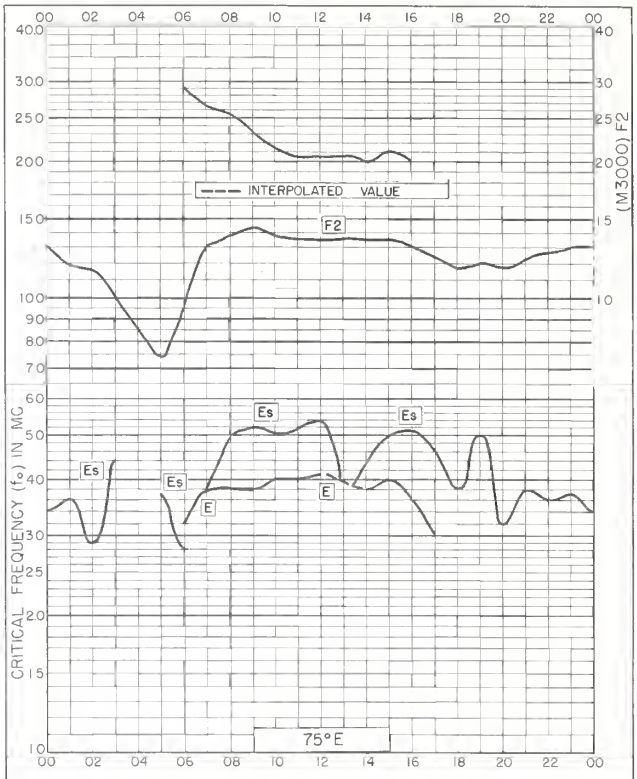


Fig. 66. MADRAS, INDIA
13.1°N, 80.3°E NOVEMBER 1957

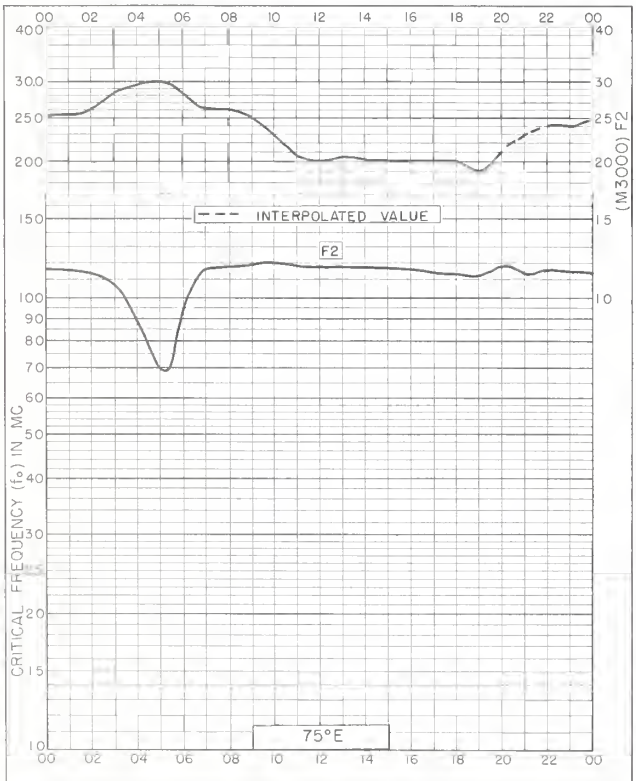


Fig. 67. TIRUCHY, INDIA
10.8°N, 78.7°E NOVEMBER 1957



Fig. 68. KODAIKANAL, INDIA
10.2°N, 77.5°E NOVEMBER 1957

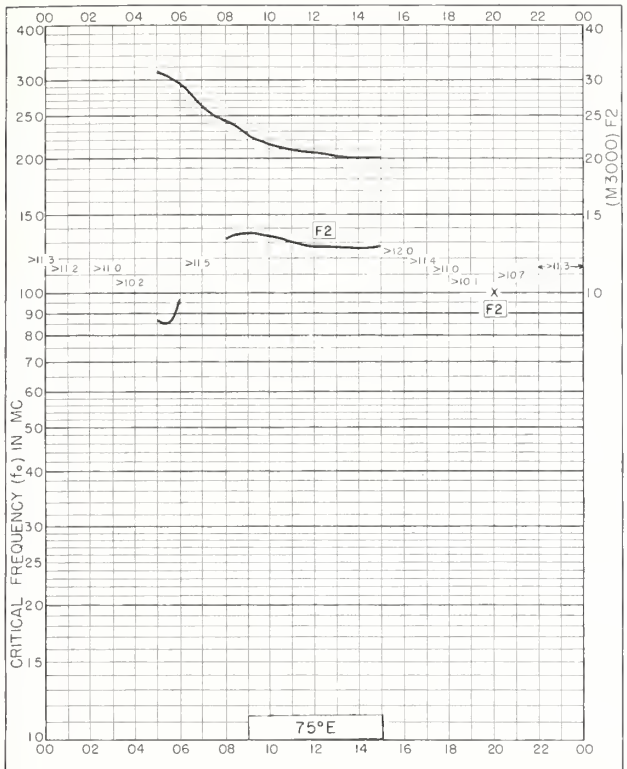


Fig. 69. TRIVANDRUM, INDIA
8.5°N, 77.0°E NOVEMBER 1957

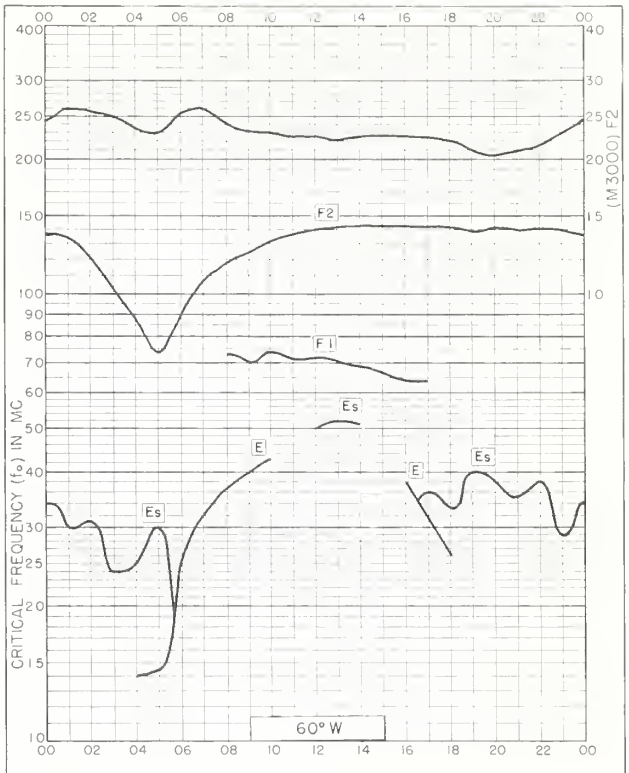


Fig. 70. TUCUMAN, ARGENTINA
26.9°S, 65.4°W NOVEMBER 1957



Fig. 71. EUREKA, CANADA
80.0°N, 85.9°W OCTOBER 1957

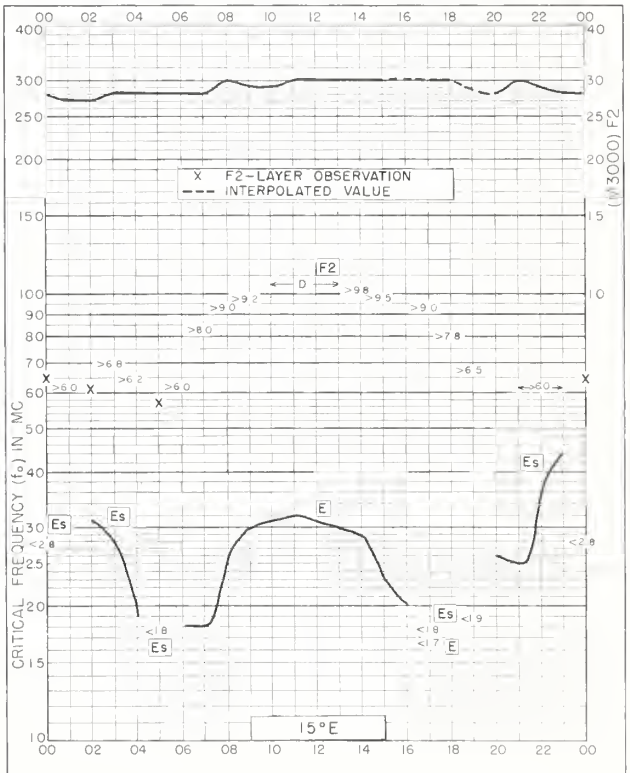


Fig. 72. LULEA, SWEDEN
65.6°N, 22.1°E OCTOBER 1957

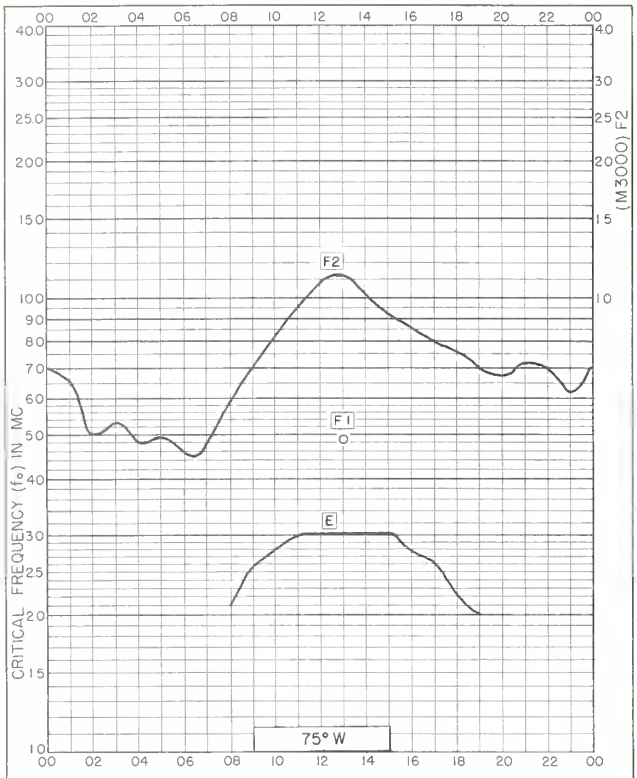


Fig. 73. FROBISHER BAY, CANADA
63.8°N, 68.6°W OCTOBER 1957

NBS 503

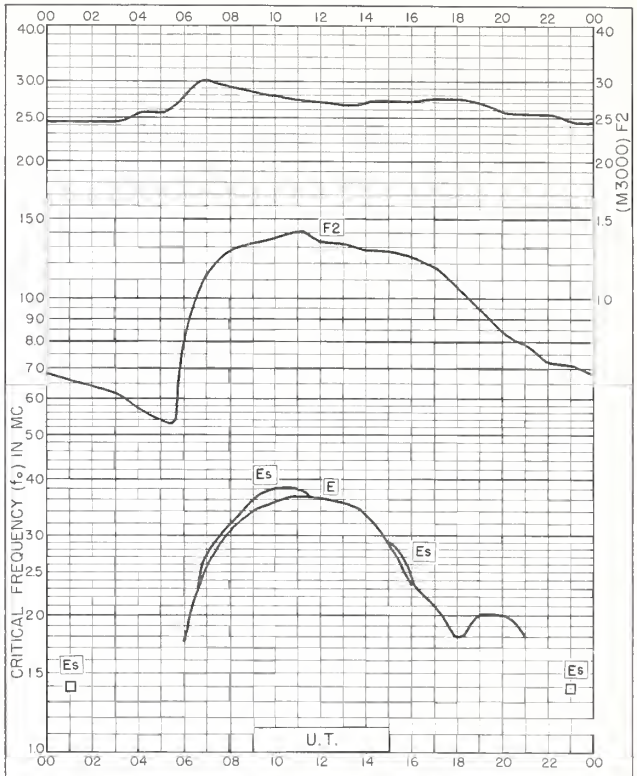


Fig. 74. FREIBURG, GERMANY
48.1°N, 7.6°E OCTOBER 1957

NBS 503

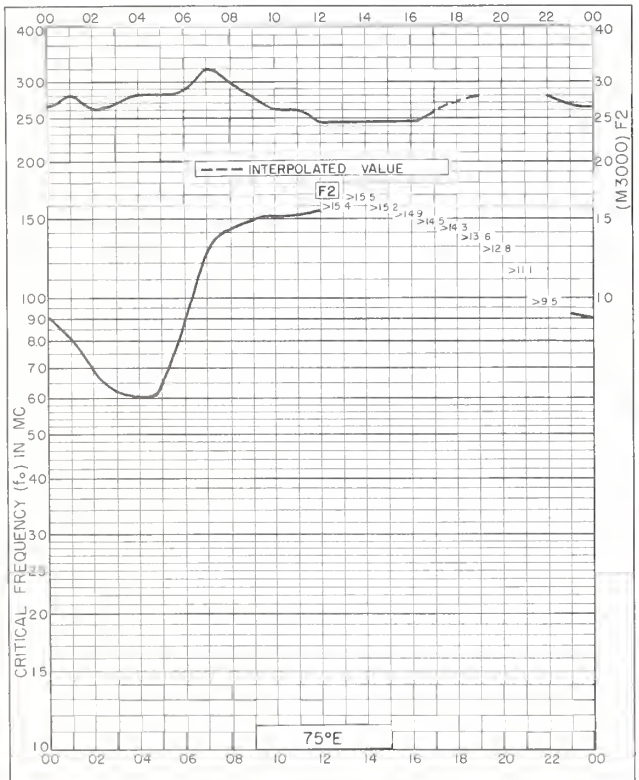


Fig. 75. DELHI, INDIA
28.6°N, 77.2°E OCTOBER 1957

NBS 503

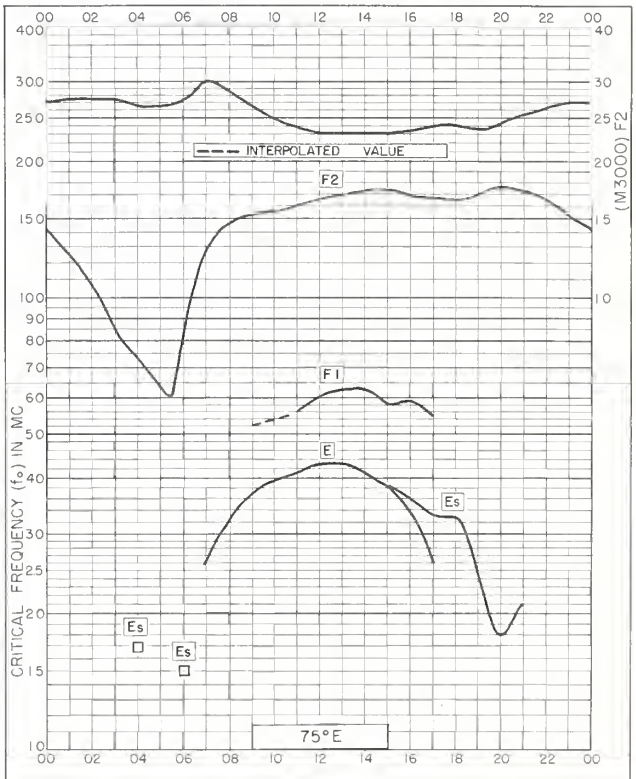


Fig. 76. AHMEDABAD, INDIA
23.0°N, 72.6°E OCTOBER 1957

NBS 503

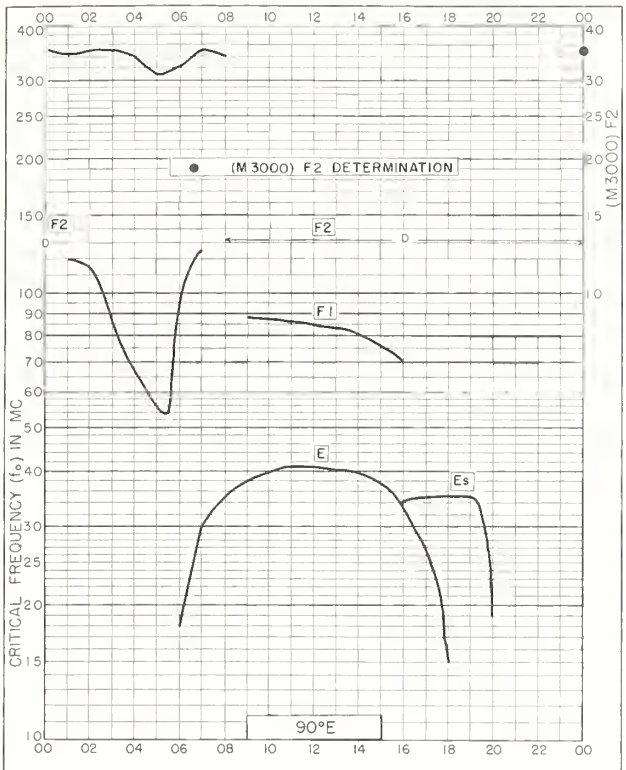


Fig. 77. CALCUTTA, INDIA
23.0°N, 88.6°E OCTOBER 1957

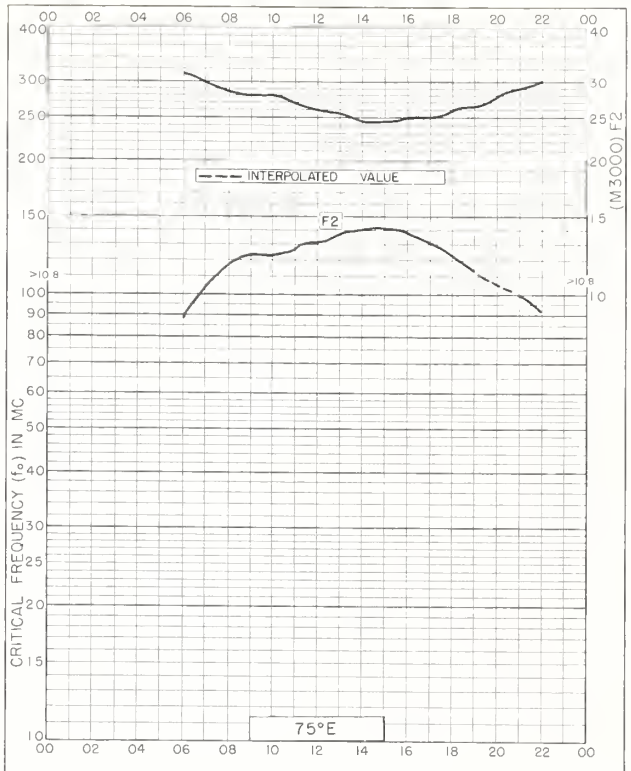


Fig. 78. BOMBAY, INDIA
19.0°N, 72.8°E OCTOBER 1957

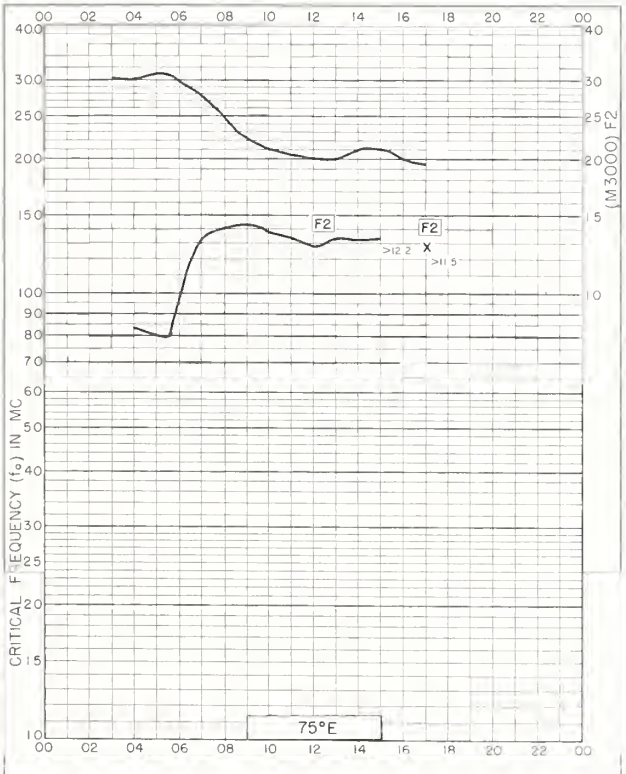


Fig. 79. MADRAS, INDIA
13.1°N, 80.3°E OCTOBER 1957

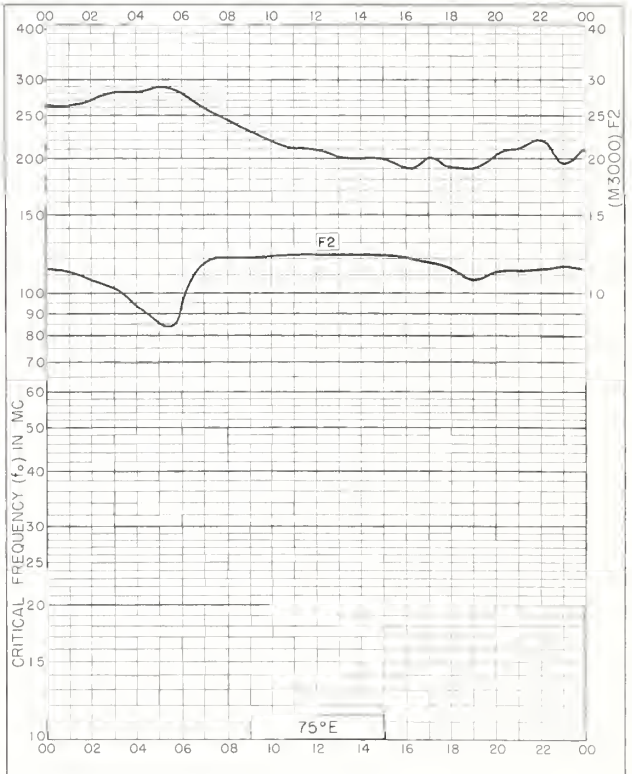


Fig. 80. TIRUCHY, INDIA
10.8°N, 78.7° OCTOBER 1957



Fig. 81. KODAIKANAL, INDIA
10.2°N, 77.5°E OCTOBER 1957

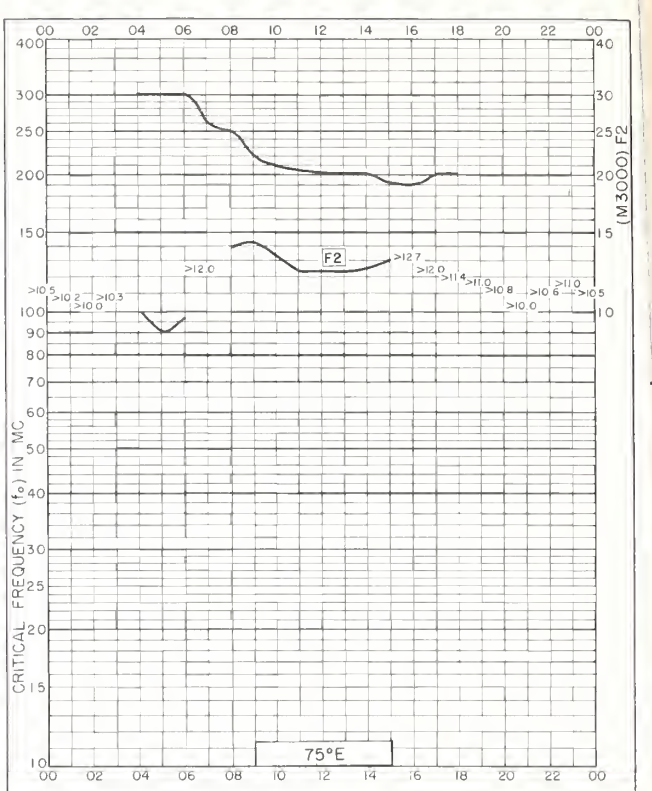


Fig. 82. TRIVANDRUM, INDIA
8.5°N, 77.0°E OCTOBER 1957

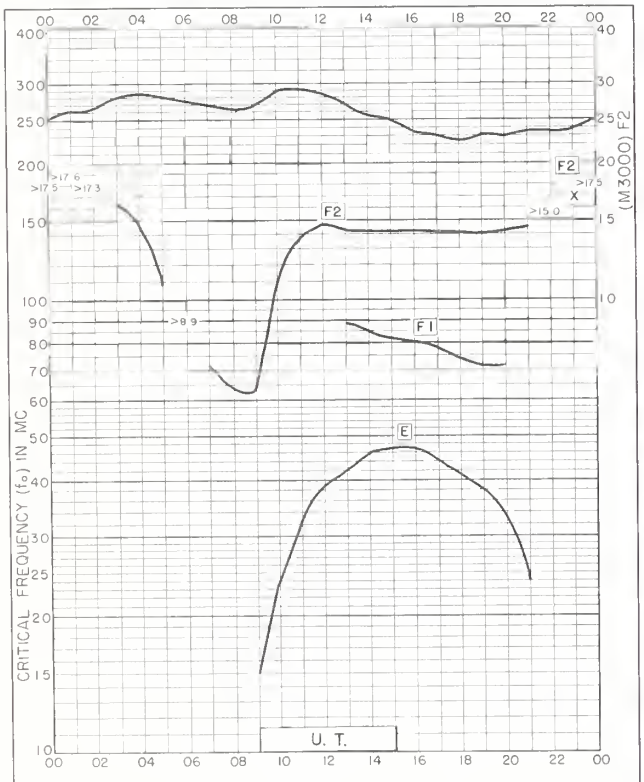


Fig. 83. PARAMARIBO, SURINAM
5.8°N, 55.2°W OCTOBER 1957

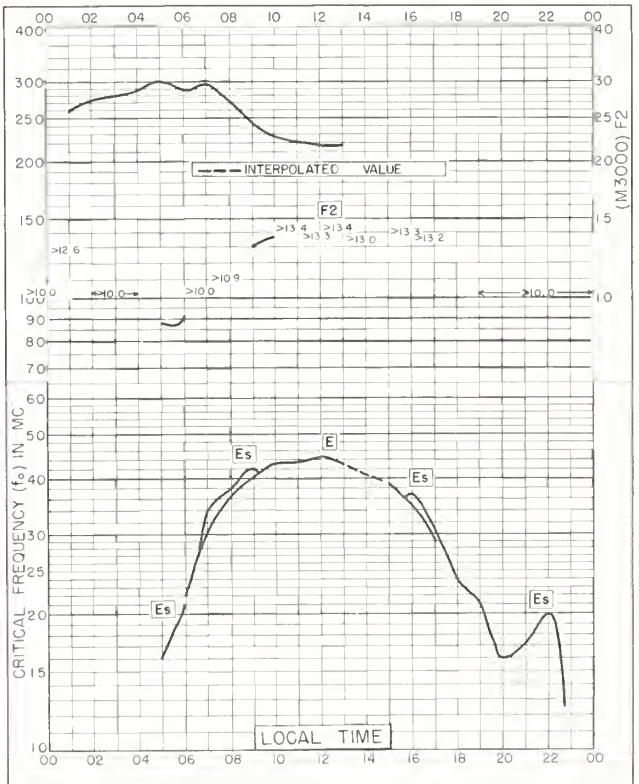


Fig. 84. LWIRO, CONGO
2.3°S, 28.8°E OCTOBER 1957



Fig. 85. TUCUMAN, ARGENTINA
26.9°S, 65.4°W OCTOBER 1957

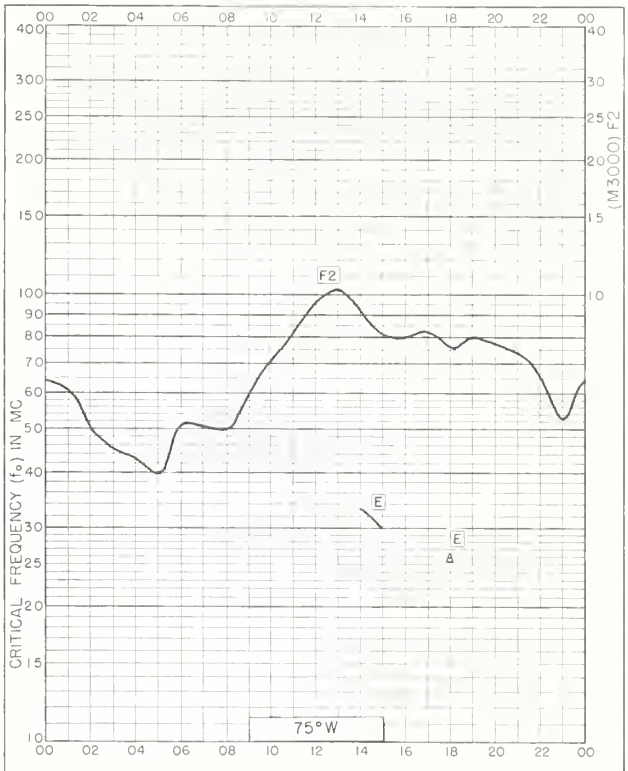


Fig. 86. FROBISHER BAY, CANADA
63.8°N, 68.6°W SEPTEMBER 1957

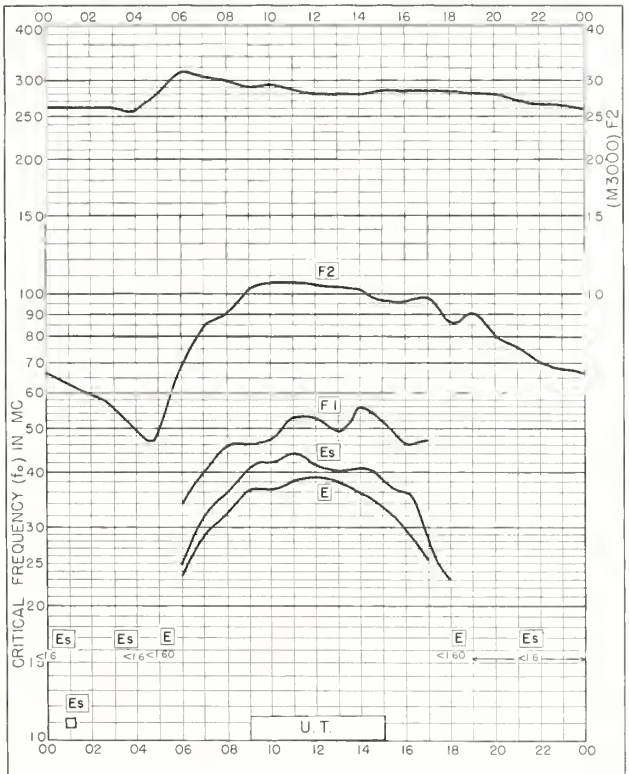


Fig. 87. DOURBES, BELGIUM
50.1°N, 4.6°E SEPTEMBER 1957

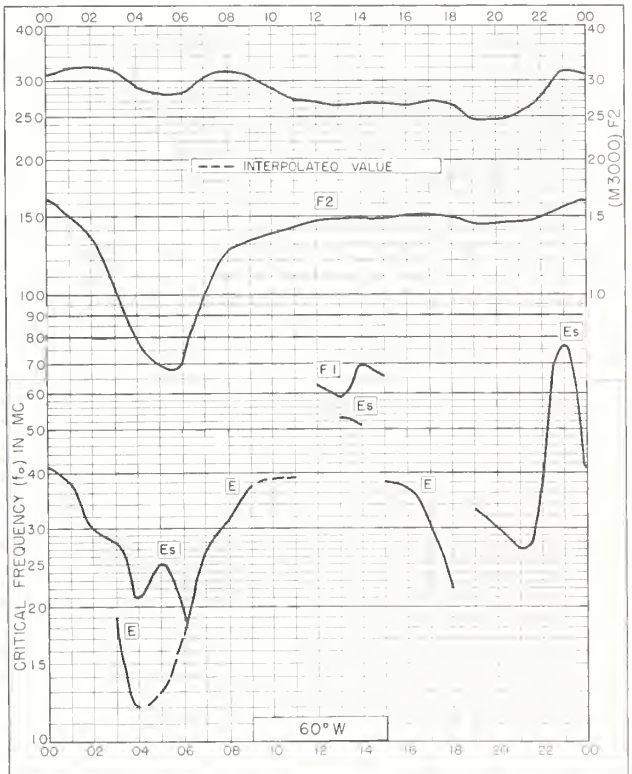


Fig. 88. TUCUMAN, ARGENTINA
26.9°S, 65.4°W SEPTEMBER 1957

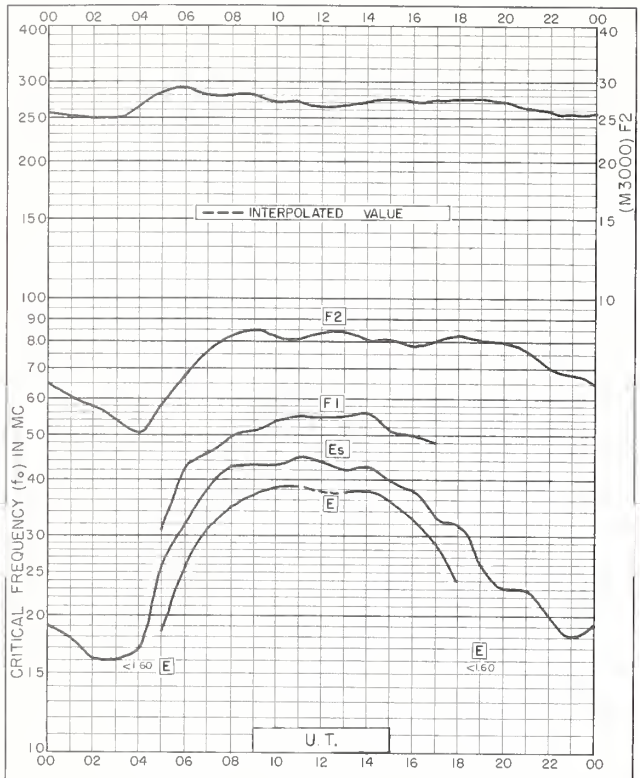


Fig. 89. DOURBES, BELGIUM
50.1°N, 4.6°E AUGUST 1957

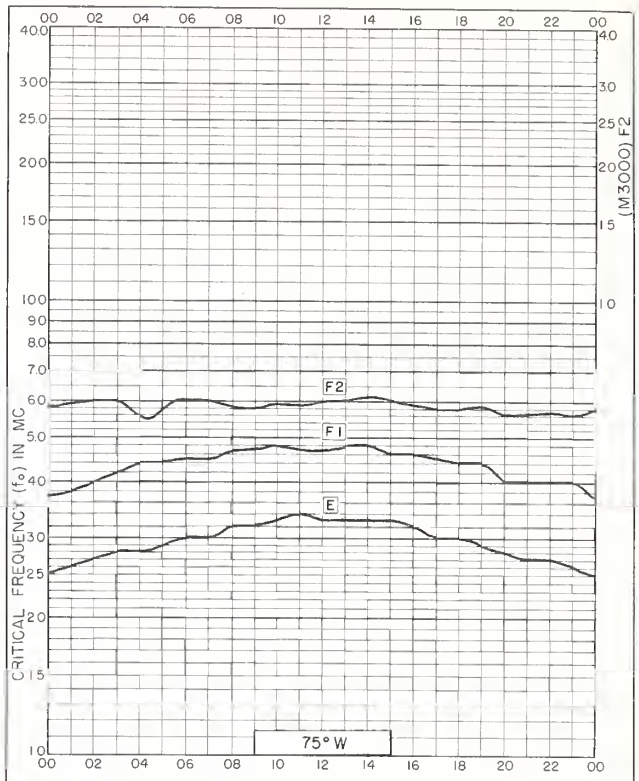


Fig. 90. EUREKA, CANADA
80.0°N, 85.9°W JULY 1957

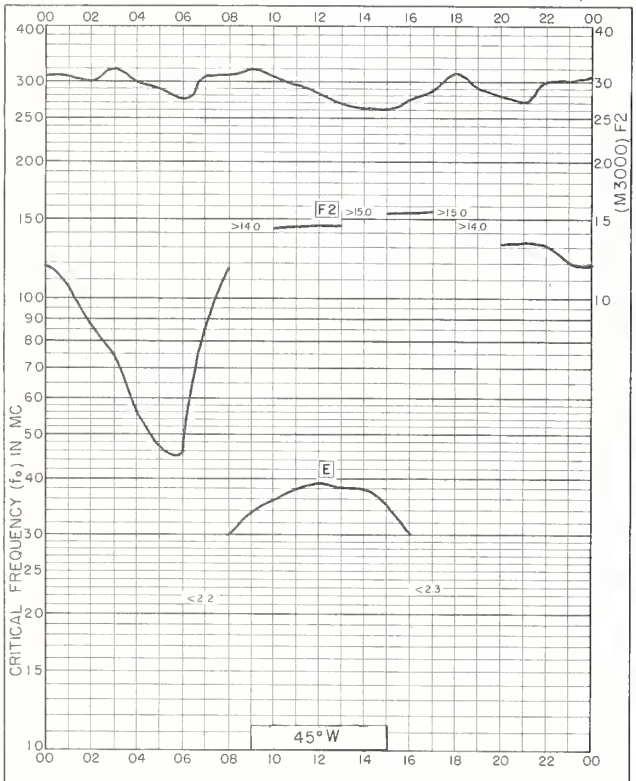


Fig. 91. SAO PAULO, BRAZIL
23.5°S, 46.5°W MAY 1957

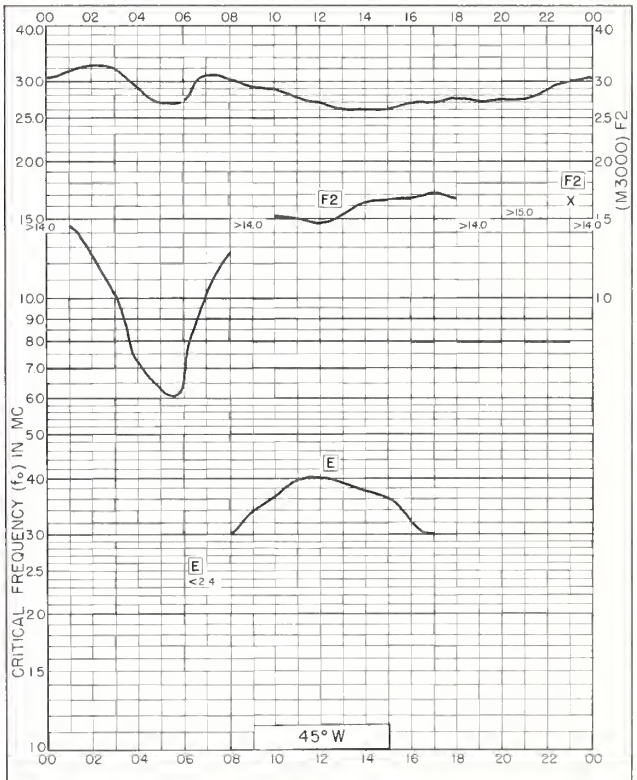


Fig. 92. SAO PAULO, BRAZIL
23.5°S, 46.5°W APRIL 1957

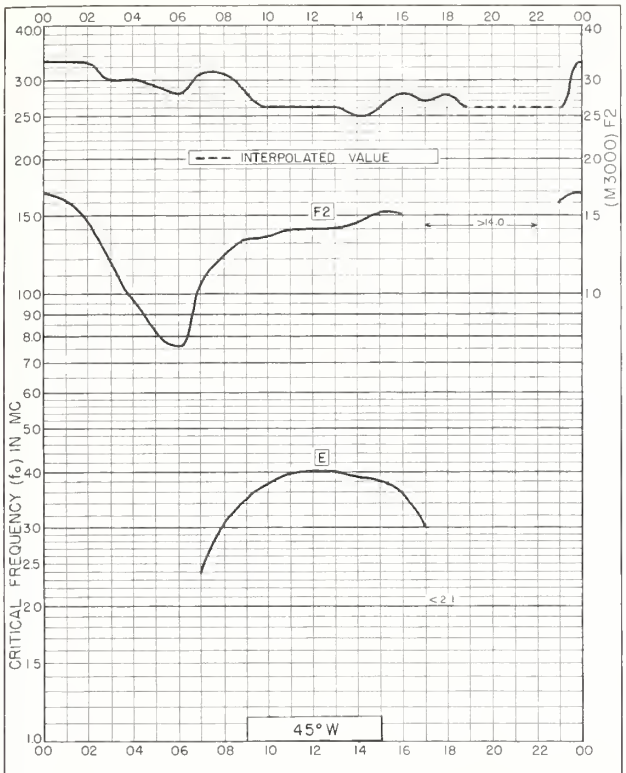


Fig. 93. SAO PAULO, BRAZIL
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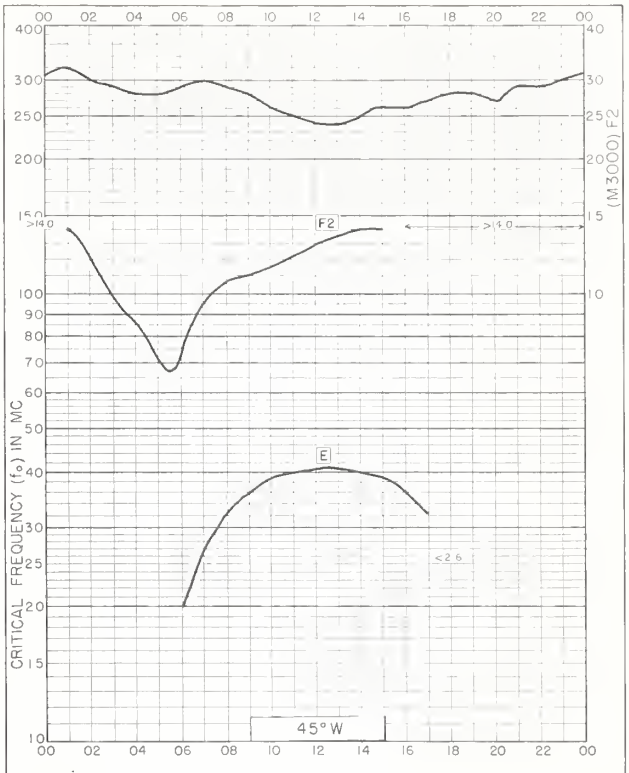


Fig. 94. SAO PAULO, BRAZIL
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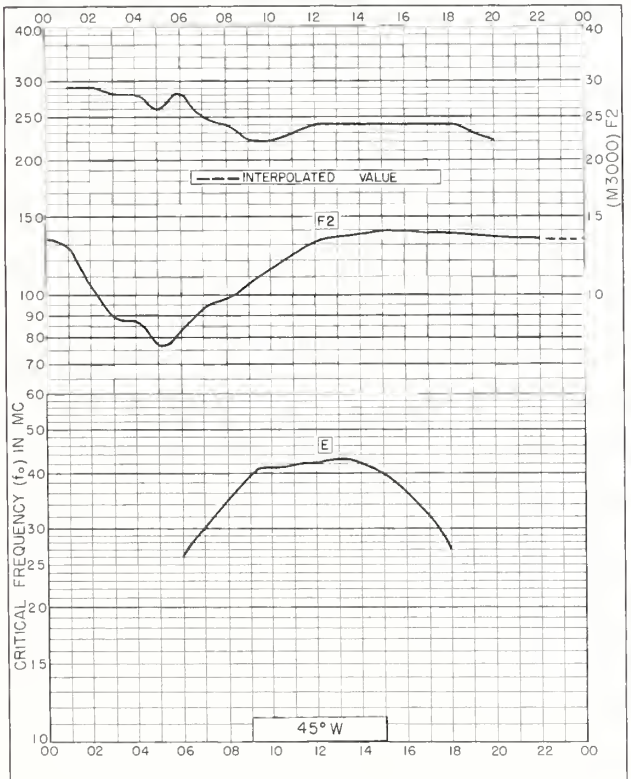


Fig. 95. SAO PAULO, BRAZIL
23.5°S, 46.5° W JANUARY 1957

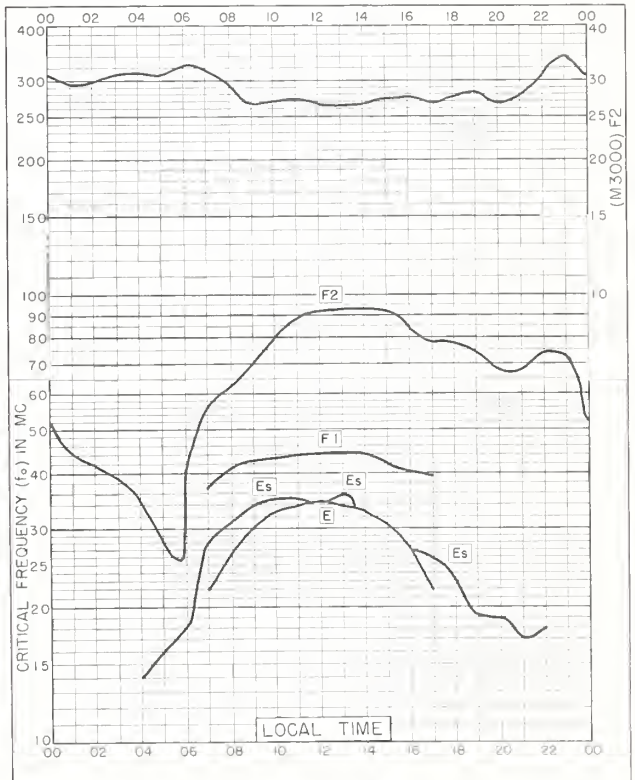


Fig. 96. LWIRO, CONGO
2.3°S, 28.8°E DECEMBER 1953



Fig. 97. LWIRO, CONGO
2.3°S, 28.8°E NOVEMBER 1953



Fig. 98. LWIRO, CONGO
2.3°S, 28.8°E OCTOBER 1953

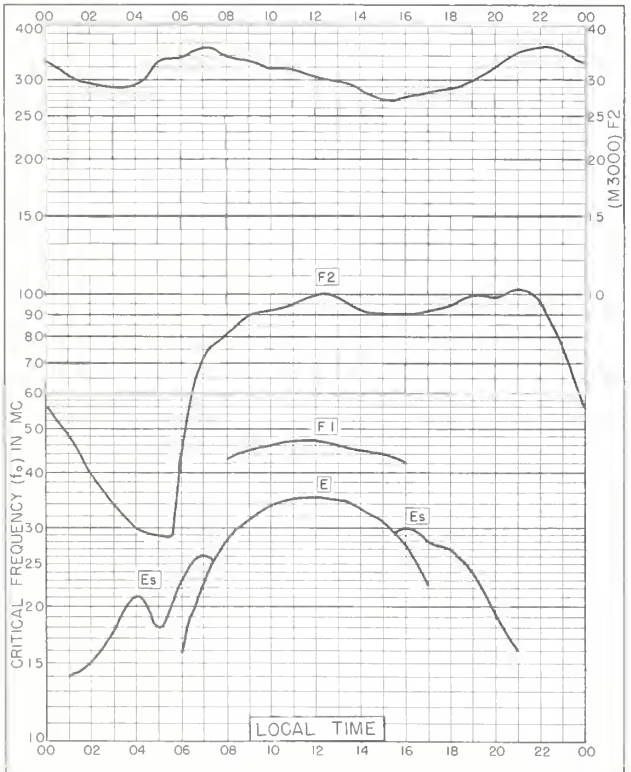


Fig. 99. LWIRO, CONGO
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Fig. 100. LWIRO, CONGO
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CRPL—F. (Part A). Ionospheric Data.
(Part B). Solar-Geophysical Data.
Limited distribution. These publications are in general disseminated only to those individuals or scientific organizations which collaborate in the exchange of ionospheric, solar, geomagnetic, or other radio propagation data.

Catalog of Data:

A catalog of records and data on file at the U. S. IGY World Data Center A for Airglow and Ionosphere, Boulder Laboratories, National Bureau of Standards, which includes a fee schedule to cover the cost of supplying copies, is available upon request.

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